HT-Z320
HT-TZ322
HT-TZ325
HT-Z420
HT-TZ422
HT-TZ425

Digital Home Cinema System

user manual

imagine the possibilities

Thank you for purchasing a Samsung product.
To receive a more complete service,
please register your product at
www.samsung.com/global/register

SAMSUNG

features

Playback of many disc types
This Home Cinema System allows you to play back various discs, including DVD-VIDEO, CD, MP3-CD, WMA-CD, DivX, CD-R/RW, and DVD±R/RW.

USB Host support
You can enjoy media files such as pictures, movies and music saved on a MP3 player, digital camera or USB memory stick by connecting the storage device to the USB port of the Home Cinema.

Dolby Pro Logic II
Dolby Pro Logic II is a form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

DTS (Digital Theater Systems)
DTS is an audio compression format developed by Digital Theater Systems Inc. It delivers full-frequency 5.1 channel sound.

TV Screen Saver Function
If the main unit remains in Stop mode for 3 minutes, the Samsung logo appears on the TV screen.
This product will automatically switch to the Power Saving mode after 20 minutes in the Screen Saver mode.

Power Saving Function
This product will automatically shut off after 20 minutes in Stop mode.

Customized TV Screen Display
This product allows you to select your favorite image during JPEG or DVD playback and set it as your background wallpaper.

Anynet+ (HDMI-CEC) Function
Anynet+ is a function that can be used to operate the main unit using a Samsung TV remote control, by connecting the Home Cinema to a SAMSUNG TV using a HDMI Cable. (This is only available with SAMSUNG TV's that support Anynet+.)

Bluetooth Function
You can use a Bluetooth device to enjoy music with high quality stereo sound, all without wires!

AV SYNC Function
Video may lag behind the audio if the unit is connected to a digital TV.

To compensate for this, you can adjust the audio delay time to sync up with the video.

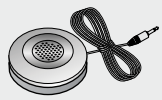
WHAT'S INCLUDED

Check for the supplied accessories below.

Video Cable

FM Antenna

User's Manual


ASC microphone

Remote Control

SWA-4100(HT-Z420/TZ422/TZ425)

TX Card

Wireless Receiver Module

Speaker Cable (2EA)

safety information

SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).

NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

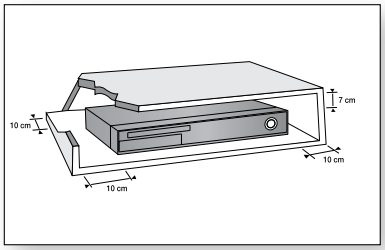
- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

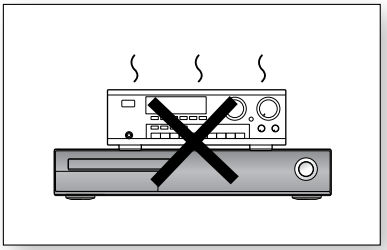
CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

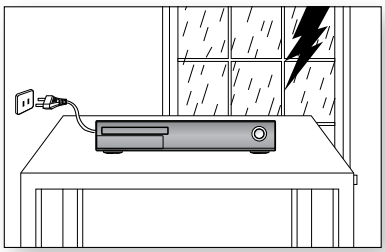
safety information

PRECAUTIONS

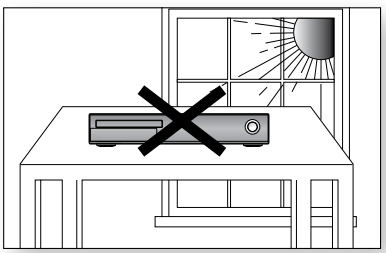




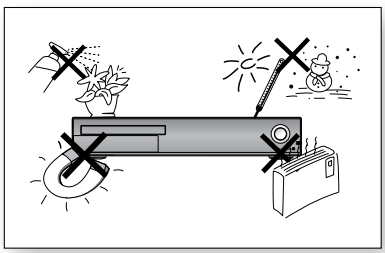
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10 cm). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



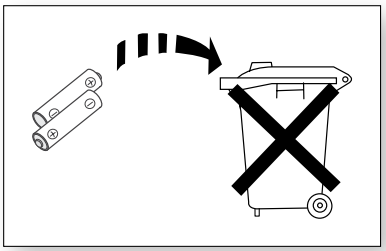
During thunderstorms, disconnect the AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.



Protect the player from moisture (i.e. vases) , and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use. Use of this product is for personal use only. Condensation may occur if your player or disc has been stored in cold temperatures. If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The batteries used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

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getting started

BEFORE READING THE USER'S MANUAL

Make sure to check the following terms before reading the user manual.

Icons that will be used in manual

Icon	Term	Definition
DVD	DVD	This involves a function available with DVD or DVD-R/DVD-RW discs that have been recorded and finalized in Video Mode.
CD	CD	This involves a function available with a data CD (CD-R or CD-RW).
MP3	MP3	This involves a function available with CD-R/-RW discs.
JPEG	JPEG	This involves a function available with CD-R/-RW discs.
DivX	DivX	This involves a function available with MPEG4 discs. (DVD±R/RW, CD-R or CD-RW)
!	Caution	This involves a case where a function does not operate or settings may be cancelled.
	Note	This involves tips or instructions on the page that help each function operate.

- **In this manual, the instructions marked with "DVD (DVD)" are applicable to DVD-VIDEO and DVD-R/-RW discs that have been recorded in Video Mode and then finalized. Where a particular DVD type is mentioned, it is indicated separately.**
- If a DVD-R/-RW disc has not been recorded properly in DVD Video format, it will not be playable.

About the use of this user's manual

1) Be sure to be familiar with Safety Information before using this product. (See page 3~4)
2) If a problem occurs, check the Troubleshooting. (See pages 66~67)

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getting started

DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie cinema or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

PLAYABLE DISCS

Disc Type	Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
DVD-VIDEO		VIDEO	12 cm	Approx. 240 min. (single-sided)
				Approx. 480 min. (double-sided)
			8 cm	Approx. 80 min. (single-sided)
				Approx. 160 min. (double-sided)
AUDIO-CD		AUDIO	12 cm	74 min.
			8 cm	20 min.
DivX		AUDIO + VIDEO	12 cm	—
			8 cm	—

DO NOT USE THE FOLLOWING TYPES OF DISC!

- CD-G, CD-I, CD-ROM, DVD-ROM and DVD-RAM discs cannot be played on this player.
  If such discs are played, a <WRONG DISC FORMAT> message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a <CAN'T PLAY THIS DISC PLEASE, CHECK REGION CODE> message appears on the TV screen.

COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

DISC TYPE AND CHARACTERISTICS

This product does not support Secure (DRM) Media files.

❖ CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
  Do not use CD-R discs over 700MB/80 minutes as they may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

❖ CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 500 tracks can be played per CD.
- A maximum of 300 folders can be played per CD.

❖ CD-R JPEG Discs

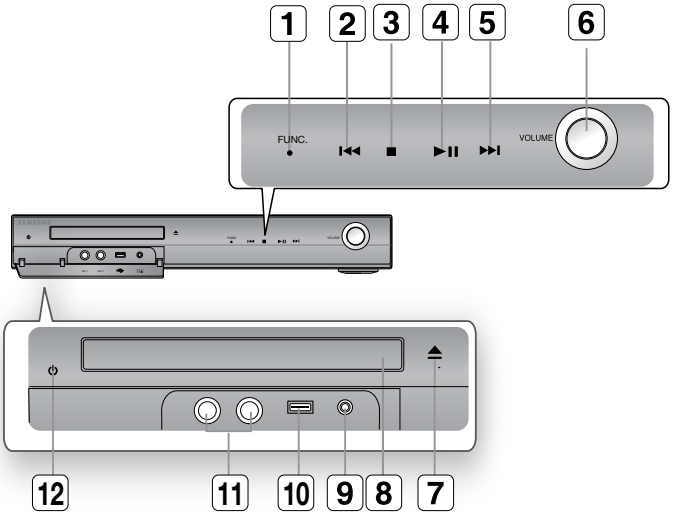
- Only files with the "jpg" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

❖ DVD±R/RW, CD-R/RW DivX Discs

- Software updates for incompatible formats are not supported.
  (Example : QPEL, GMC, resolution higher than 800 x 600 pixels, etc.)
- Sections with a high frame rate might not be played while playing a DivX file.
- DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified or DivX Ultra Certified device that plays DivX video.

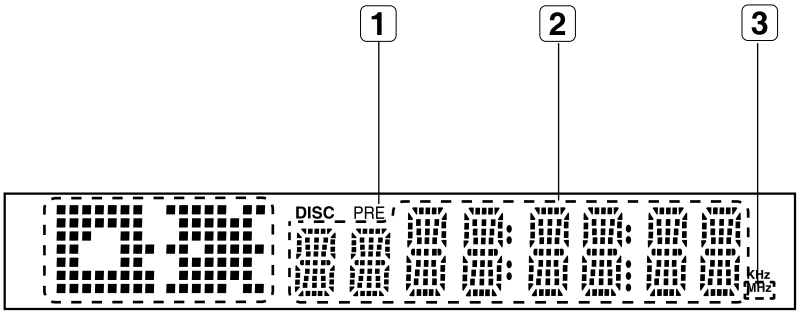
description

FRONT PANEL



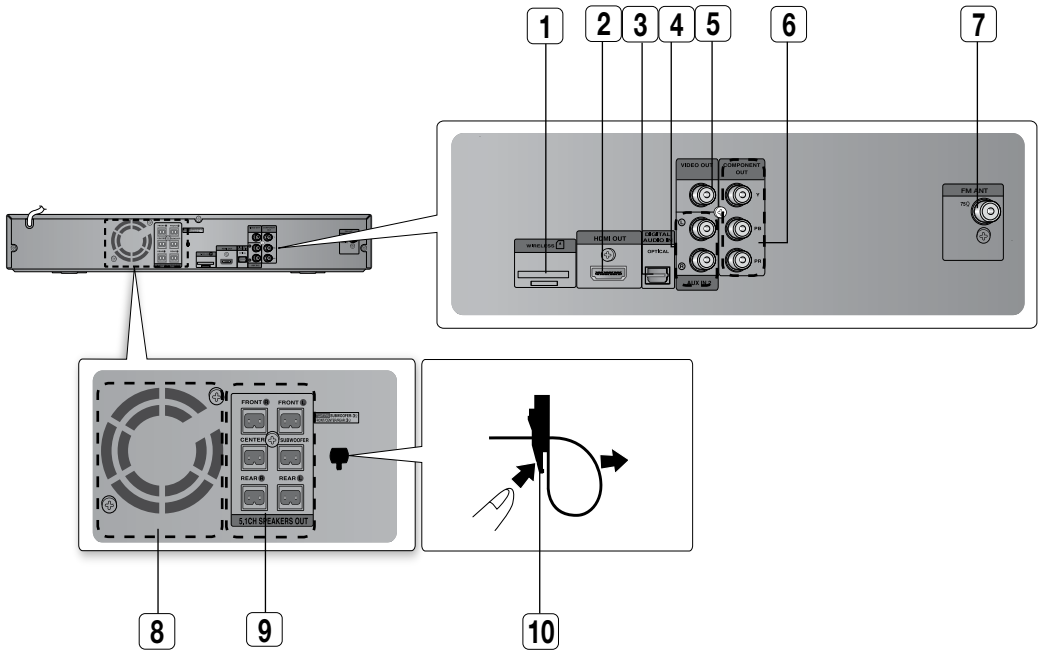
1	FUNCTION BUTTON	5	TUNING UP & SKIP (▸▸I) BUTTON	9	AUX IN 1/ASC IN CONNECTOR
2	TUNING DOWN & SKIP (I◂◂) BUTTON	6	VOLUME CONTROL	10	USB CONNECTOR
3	STOP (■) BUTTON	7	OPEN/CLOSE BUTTON	11	MIC 1,MIC 2 JACK
4	PLAY/PAUSE (▸II) BUTTON	8	DISC TRAY	12	POWER(⏻) BUTTON

DISPLAY



1	TUNER PRESETTING INDICATOR
2	SYSTEM STATUS DISPLAY
3	RADIO FREQUENCY INDICATOR

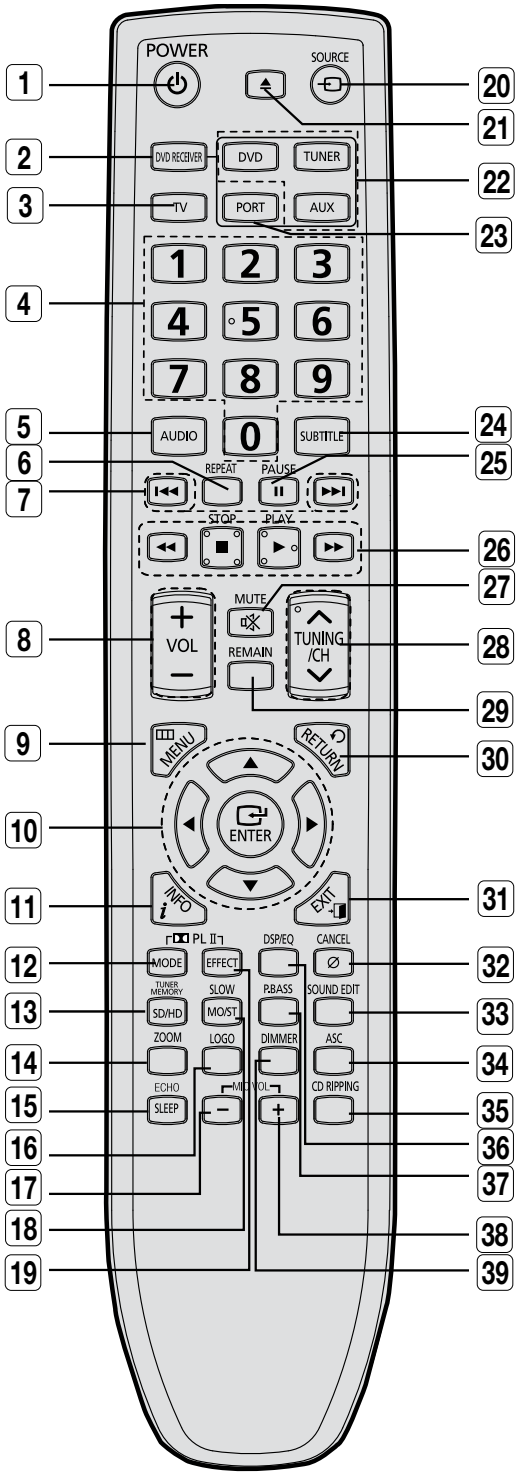
REAR PANEL



1	TX CARD CONNECTION (WIRELESS)	The TX card enables communication between the main unit and the wireless receiver amplifier.(The wireless module is not provided for HT-Z320/TZ322/TZ325)
2	HDMI OUT JACK	Use the HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture.
3	External Digital Optical Input Jack	Use this to connect external equipment capable of digital output.
4	AUX IN 2 JACKS	Connect to the 2CH analog output of an external device (such as a VCR).
5	VIDEO OUTPUT JACK	Connect your TV's Video Input jack (VIDEO IN) to the VIDEO OUT jack.
6	COMPONENT VIDEO OUTPUT JACKS	Connect a TV with Component video inputs to these jacks.
7	FM 75Ω COAXIAL JACK	Connect the FM antenna.
8	COOLING FAN	The fan always revolves when the power is on. Ensure a minimum of 4 inches of clear space on all sides of the fan when installing the product.
9	SPEAKER OUTPUT CONNECTORS	Connect the front, center,rear speakers and subwoofer. (HT-Z420/TZ422/TZ425 does not have rear speaker connectors on the main unit,the rear speakers are connected to the Wireless module.)
10	CLAMP-WIRE	Fasten the speaker wires.

remote control

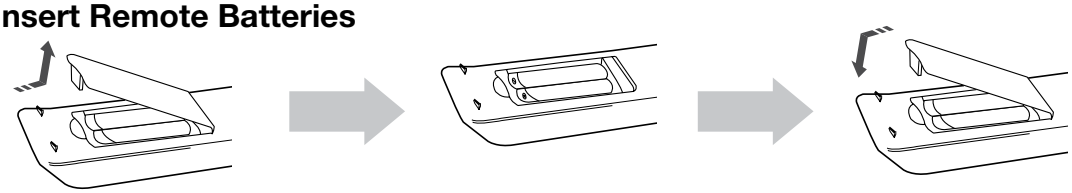
TOUR OF THE REMOTE CONTROL



1	POWER button
2	DVD RECEIVER button
3	TV button
4	Number (0~9) buttons
5	AUDIO
6	REPEAT button
7	Tuning Preset/CD Skip buttons
8	VOLUME button
9	MENU button
10	Cursor/ENTER button
11	INFO button
12	DIGITAL PL II MODE button
13	TUNER MEMORY ,SD(Standard Definition)/HD(High Definition) button
14	ZOOM button
15	ECHO,SLEEP button
16	LOGO button
17	MIC VOLUME RELEASE button
18	SLOW,MO/ST button
19	DIGITAL PL II EFFECT button
20	SOURCE button

21	⏏ OPEN/CLOSE button
22	DVD DVD button TUNER TUNER button AUX AUX button
23	PORT button
24	SUBTITLE
25	PAUSE button
26	▶ PLAY button ■ STOP button ◀◀ ▶▶ SEARCH buttons
27	MUTE button
28	TUNING/CH button
29	REMAIN button
30	RETURN button
31	EXIT button
32	CANCEL button
33	SOUND EDIT button
34	ASC button
35	CD RIPPING button
36	DSP/EQ button
37	P.BASS button
38	MIC VOLUME INCREASE button
39	DIMMER button

Insert Remote Batteries



1. Remove the battery cover in the direction of the arrow.

2. Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).

3. Replace the battery cover.

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity : (+) to (+) and (–) to (–).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.

remote control

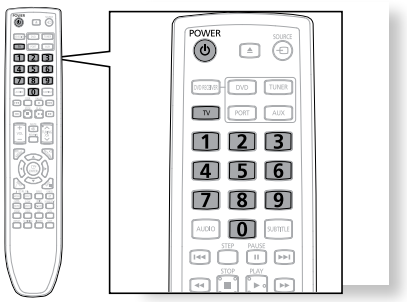
SETTING THE REMOTE CONTROL

You can control certain functions of your TV with this remote control.

When operating a TV with the remote control

1. Press the **TV** button to set the remote to TV mode.
2. Press the **POWER** button to turn on the TV.
3. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

   Example : For a Samsung TV
   While holding down the **POWER** button, use the **number** buttons to enter 00, 15, 16, 17 or 40.

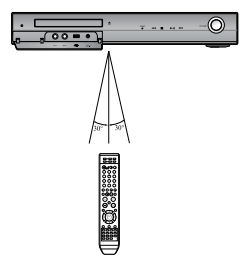


4. If the TV turns off, the setting is complete.
   - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

- The remote control may not work on some brands of TV's. Also, some operations may not be possible depending on your brand of TV.
- If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

Operation Range of the Remote Control

The remote control can be used up to approximately 7 meters in a straight line.
It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



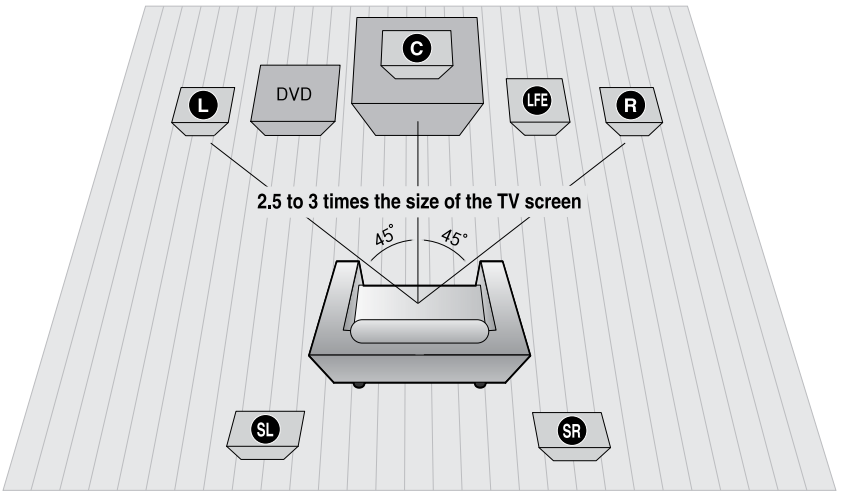
TV Brand Code List

No.	Brand	Code	No.	Brand	Code
1	Admiral (M.Wards)	56, 57, 58	44	MTC	18
2	A Mark	01, 15	45	NEC	18, 19, 20, 40, 59, 60
3	Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14	46	Nikei	03
			47	Onking	03
4	AOC	01, 18, 40, 48	48	Onwa	03
5	Bell & Howell (M.Wards)	57, 58, 81	49	Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74
6	Brocsonic	59, 60	50	Penney	18
7	Candle	18	51	Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90
8	Cetronic	03	52	Philips	15, 17, 18, 40, 48, 54, 62, 72
9	Citizen	03, 18, 25	53	Pioneer	63, 66, 80, 91
10	Cinema	97	54	Portland	15, 18, 59
11	Classic	03	55	Proton	40
12	Concerto	18	56	Quasar	06, 66, 67
13	Contec	46	57	Radio Shack	17, 48, 56, 60, 61, 75
14	Coronado	15	58	RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94
15	Craig	03, 05, 61, 82, 83, 84	59	Realistic	03, 19
16	Croslex	62	60	Sampo	40
17	Crown	03	61	Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
18	Curtis Mates	59, 61, 63			
19	CXC	03	62	Sanyo	19, 61, 65
20	Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90	63	Scott	03, 40, 60, 61
			64	Sears	15, 18, 19
21	Daytron	40	65	Sharp	15, 57, 64
22	Dynasty	03	66	Signature 2000 (M.Wards)	57, 58
23	Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85	67	Sony	50, 51, 52, 53, 55
24	Fisher	19, 65	68	Soundesign	03, 40
25	Funai	03	69	Spectricon	01
26	Futuretech	03	70	SSS	18
27	General Electric (GE)	06, 40, 56, 59, 66, 67, 68	71	Sylvania	18, 40, 48, 54, 59, 60, 62
28	Hall Mark	40	72	Symphonic	61, 95, 96
29	Hitachi	15, 18, 50, 59, 69	73	Tatung	06
30	Inkel	45	74	Techwood	18
31	JC Penny	56, 59, 67, 86	75	Teknika	03, 15, 18, 25
32	JVC	70	76	TMK	18, 40
33	KTV	59, 61, 87, 88	77	Toshiba	19, 57, 63, 71
34	KEC	03, 15, 40	78	Vidtech	18
35	KMC	15	79	Videch	59, 60, 69
36	LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44	80	Wards	15, 17, 18, 40, 48, 54, 60, 64
37	Luxman	18	81	Yamaha	18
38	LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71	82	York	40
39	Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89	83	Yupiteru	03
40	Marantz	40, 54	84	Zenith	58, 79
41	Matsui	54	85	Zonda	01
42	MGA	18, 40	86	Dongyang	03, 54
43	Mitsubishi/MGA	18, 40, 59, 60, 75			

connections

This section involves various methods of connecting the Digital Home Cinema to other external components.
Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

CONNECTING THE SPEAKERS



Position of the DVD Player

Place it on a stand or cabinet shelf.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV.
Example : For 32" TV's 2~2.4m (6~8feet)
For 55" TV's 3.5~4m (11~13feet)

Front Speakers L R

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.

Place the speakers so that their tweeters will be at the same height as your ear.

Align the front face of the front speakers with the front face of the Centre speaker or place them slightly in front of the Centre speakers.

Centre Speaker C

It is best to install it at the same height as the front speakers. You can also install it directly over or under the TV.

Rear Speakers SL SR

Place these speakers behind your listening position. If there isn't enough room, place these speakers so they face each other. Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

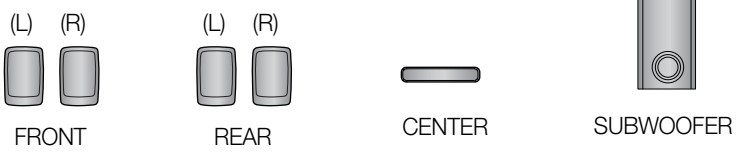
* Unlike the front and Centre speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

Subwoofer LFE

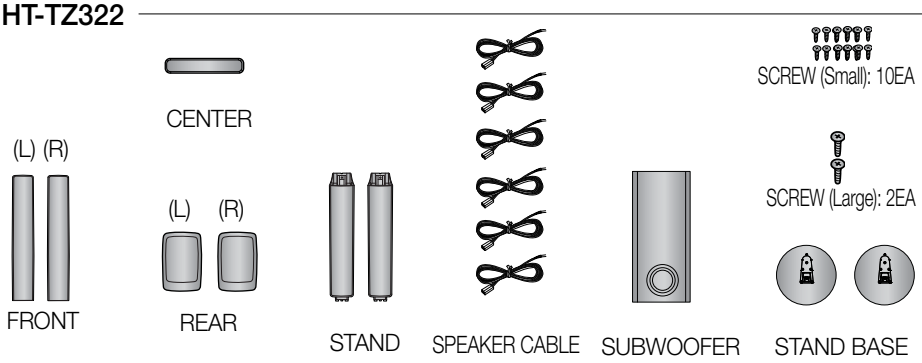
The position of the subwoofer is not so critical. Place it anywhere you like.

Speaker Components

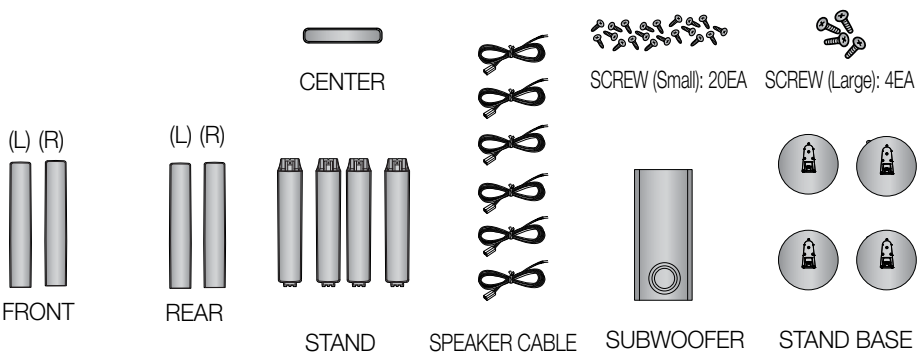
HT-Z320



HT-TZ322



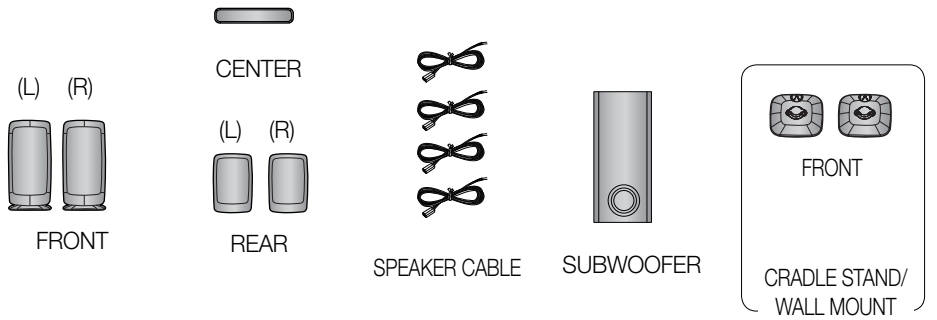
HT-TZ325



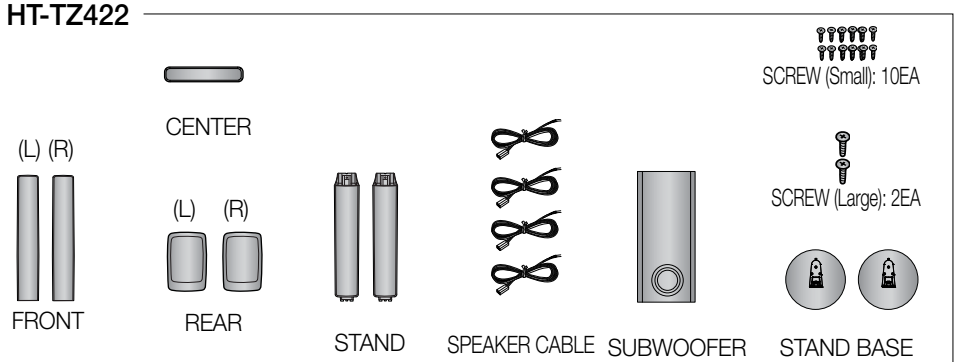
connections

Speaker Components

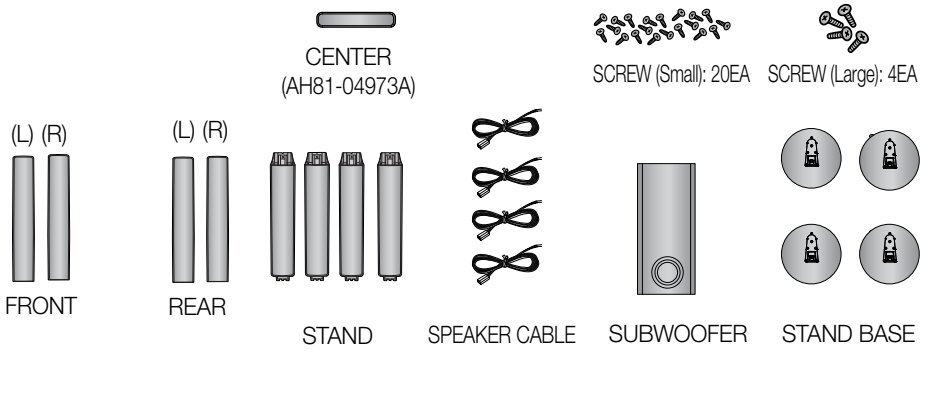
HT-Z420



HT-TZ422



HT-TZ425

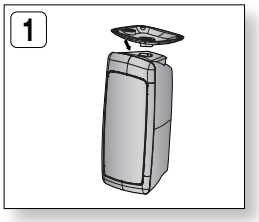


Installing the Cradle Stand

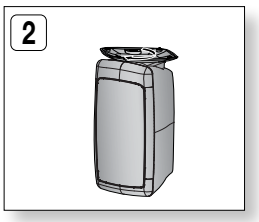
HT-Z420 - Front Speakers

<Front>

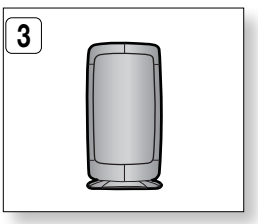
1. Insert the stand so that it fits into the hole as described in the figure.



2. Turn the stand clockwise to lock it. (Turning it counter-clockwise will loosen it.)



3. This is the completion of the stand installation.



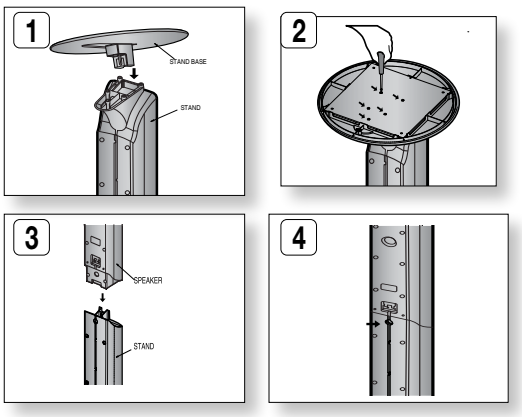
Front/Rear Tallboy Stand

How to Install the Speaker on the Stand

HT-TZ322/TZ422 - Front Speakers

HT-TZ325/TZ425 - Front/Rear Speakers

1. Turn the **STAND** upside-down and connect it to the **STAND BASE**.
2. Insert five small **SCREWS** into the five holes marked with arrows using a screwdriver as shown in the illustration.
3. Connect upper SPEAKER to the assembled STAND.
4. Insert another large **SCREW** into the hole on the rear of the speaker marked with arrow using a screwdriver.



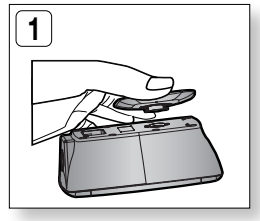
Front Speakers Wall Mount Installation

Installing the Wall Mount

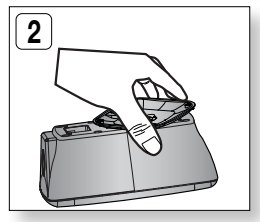
HT-Z420 - Front Speakers

<Front>

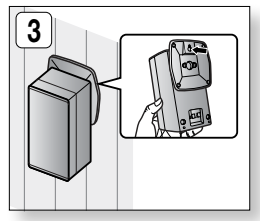
1. Insert the wall mount so that it fi ts into the rear hole of the speaker as in the figure.



2. Turn the wall mount counter clockwise to fix it. (This is in the reverse direction of the cradle stand installation.)



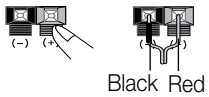
3. Use the wall mount hole (bracket) to install the speaker on the wall.

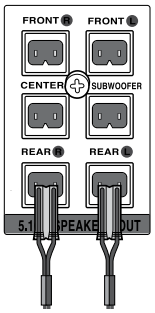


▪ Make sure the speaker is hung properly to avoid accidents or injury.

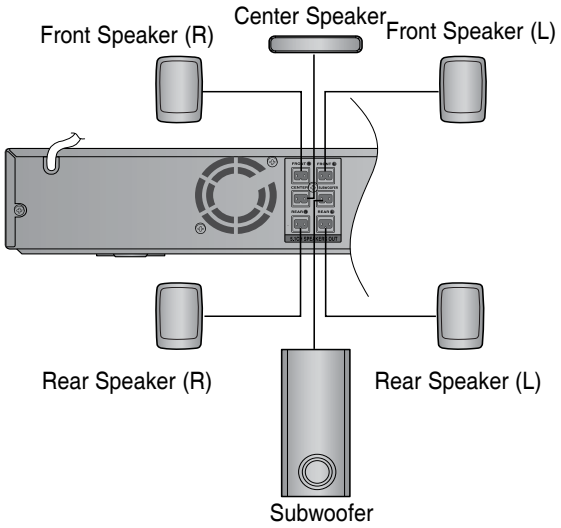
Connecting the Front, Center,Rear and Subwoofer Speakers

1. Press down the terminal tab on the back of the speaker.
2. Insert the black wire into the black terminal (–) and the red wire into the red terminal(+), and then release the tab.
3. Connect the other end of the speaker cable to the connecting jacks on the back of the Home Theater and Wireless Receiving Module.
   - Make sure the colors of the connecting plugs match the connecting jacks.

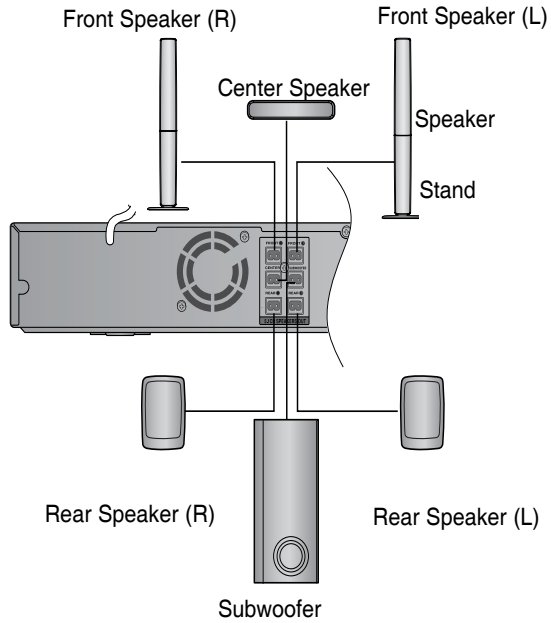




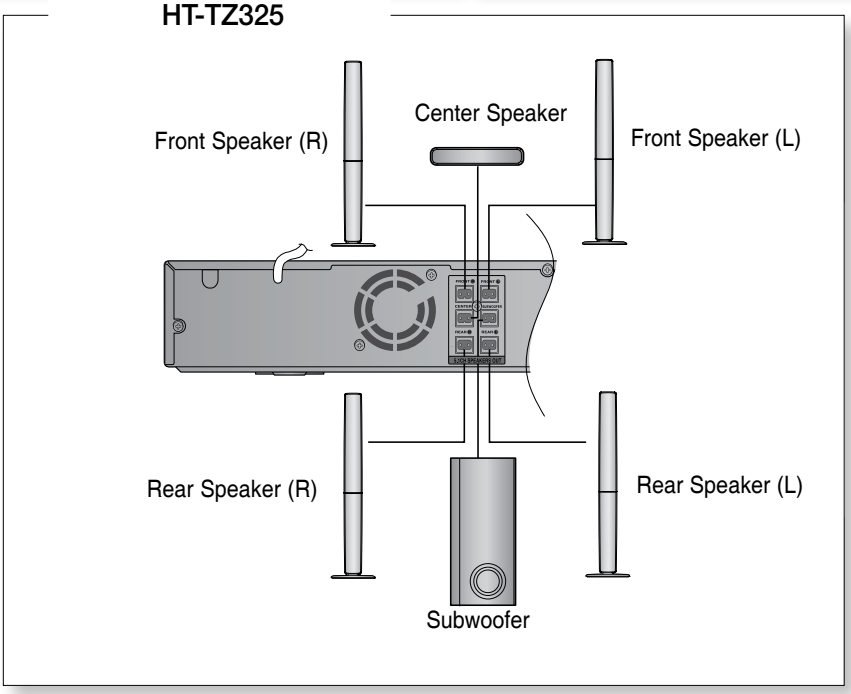
HT-Z320



HT-TZ322



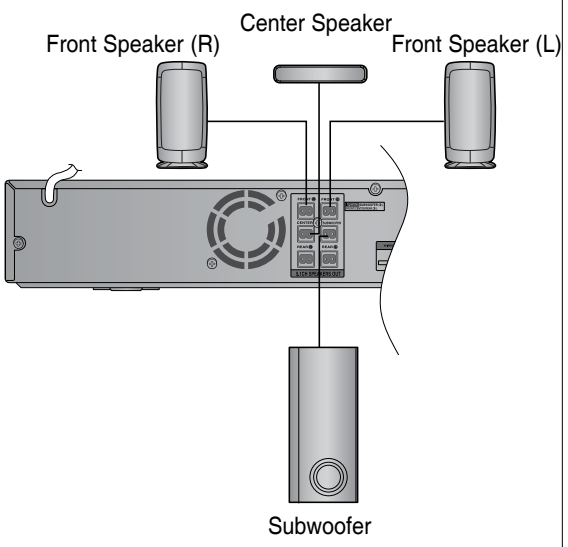
HT-TZ325



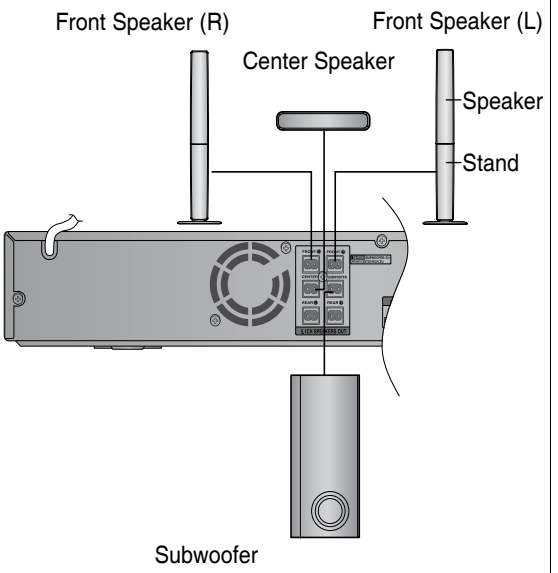
connections

Connecting the Front, Rear, Center and Subwoofer Speakers

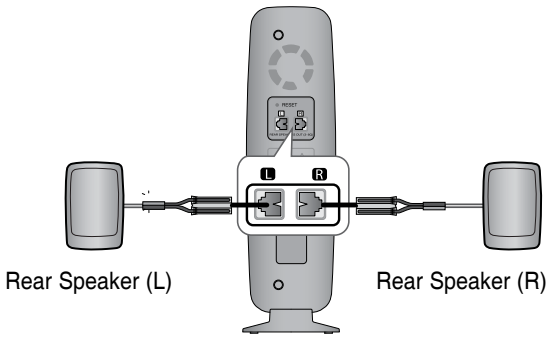
HT-Z420



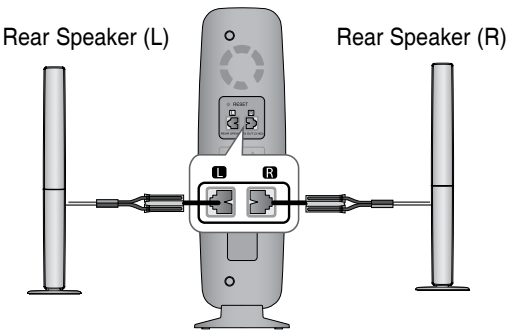
HT-TZ422/TZ425



HT-Z420/TZ422



HT-TZ425

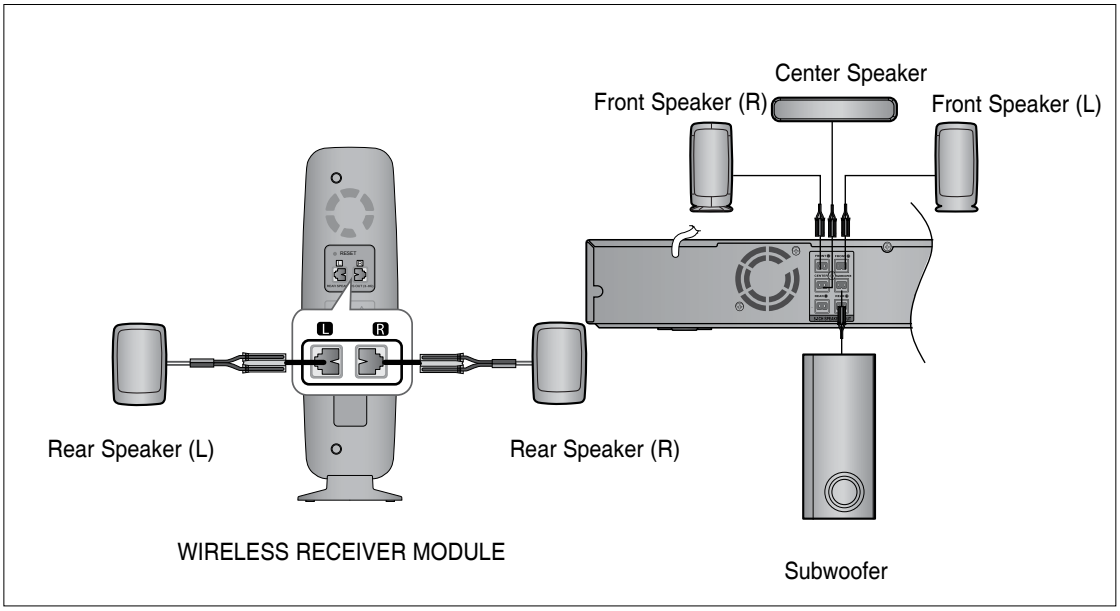


- Do not let children play with or near the speakers. They could get hurt if the speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/–) is correct.
- Keep the subwoofer speaker out of the reach of children so as to prevent them from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang the subwoofer on the wall through the duct (hole).

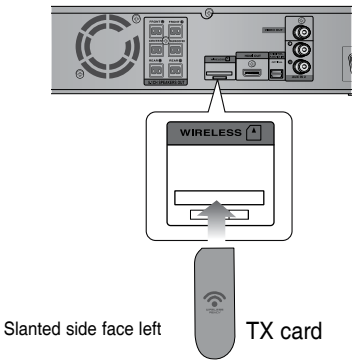
- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

CONNECTING THE WIRELESS RECEIVING AMPLIFIER

Wireless Receiving Module (SWA-4100)



1. Connect the front, Center and Subwoofer speakers to the DVD Player, referring to page 21~22.
2. With the DVD Player turned off, insert the TX card into the TX Card Connection (WIRELESS) on the back of the main unit.
   - Hold the TX card so that the slanted side faces to the left and insert the card into the port.
   - The TX card enables communication between the main unit and the wireless receiver.
3. Connect the left and right rear speakers to the wireless receiving module.
4. Plug the power cord of the wireless receiving module in the wall outlet



- HT-Z420/TZ422/TZ425 doesn't have rear speaker connectors on the main unit.The rear speakers are connected to the Wireless module.
- The rear speakers for HT-Z320/TZ322/TZ325 can also be connected to the Wireless module (SWA-4100) if you purchase it separately.

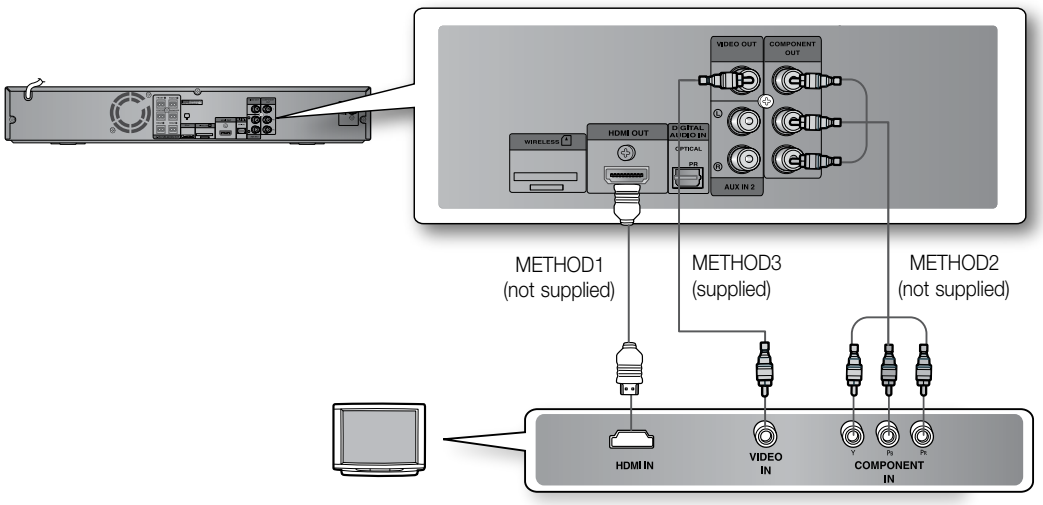
- **The HT-Z420/TZ422/TZ425 only can connect with wireless receiving module (SWA-4100).**

- Place the wireless receiver module at the rear of the listening position. If the wireless receiver module is too close to the main unit, some sound interruption may be heard due to interference.
- If you use a device such as a microwave oven, wireless LAN Card, Bluetooth equipment, or any other device that uses the same frequency (2.4GHz) near the system, some sound interruption may be heard due to interference.
- The transmission distance from the main unit to the wireless receiving module is about 33 feet (10m), but may vary depending on your operating environment. If a steel-concrete wall or metallic wall is between the main unit and the wireless receiver module, the system may not operate at all, because the radio wave cannot penetrate metal.
- This product is also compatible with the wireless receiver module SWA-4000.
- If the main unit doesn't make wireless connection, the system needs ID Setting between main unit and wireless receiver module.With the main unit turned off, press remote control's number buttons "0"→"1"→"3"→"5" and main unit will turn on. With the wireless receiver module turned on, press "ID SET" button on the back of the wireless module for 5 seconds.

- Do not insert any other card except the provided TX card.
  If a different TX card is used, the product may be damaged or the card may not be removed easily.
- Do not insert the TX card upside down or in the reverse direction.
- Insert the TX card when the DVD Player is turned off. Inserting the card when it is turned on may cause a problem.
- If the TX Card is inserted and wireless receiving module setting is complete, sound is not output from the Rear Speaker connectors on the main unit.
- The wireless receiving antenna is built into the wireless receiver module. Keep the unit away from water and moisture.
- For optimal listening performance, make sure that the area around the wireless receiver module location is clear of any obstructions.
- **If no sound is heard from the wireless rear speakers, switch the mode to DVD 5.1 channel or Dolby ProLogic II .**
- In 2-CH mode, no sound will be heard from the wireless rear speakers.

CONNECTING THE VIDEO OUT TO YOUR TV

Choose one of the three methods for connecting to a TV.



METHOD 1 : HDMI(Best)

Connect the HDMI cable (not supplied) from the HDMI OUT jack on the back of the DVD Home Theater to the HDMI IN jack on your TV.HDMI enables you to view movies in High Definition on your HDTV.

METHOD 2 : Component Video(Better)

If your television is equipped with Component Video inputs, connect a component video cable(not supplied) from the Component Video Output (Pr, Pb and Y) Connectors on the back of the main unit to the Component Video Input Connectors on your TV.

METHOD 3 : Composite Video(Good)

Connect the supplied video cable from the VIDEO OUT jack on the back of the main unit to the VIDEO IN jack on your TV.

- Resolutions available for the HDMI output are 480p, 720p,1080i/1080p.See page 27 for resolution setting.
- This product operates in Interlace scan mode (480i) for Component Output.
- After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your Home theater. See your TV owner's manual for more information on how to select the TV's Video Input source.
- If you use an HDMI cable to connect a Samsung TV to the main unit, you can operate the Home Theater using the TV's remote control. (This is only available with SAMSUNG TV's that support Anynet+(HDMI-CEC).)
- If your TV has the Anynet+ logo, then it supports the Anynet+ function.

HDMI Auto Detection Function

The player's video output will automatically change to HDMI mode when connecting an HDMI cable while power is on.

- **HDMI (High Definition Multimedia Interface)**
  HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the DVD Home Cinema transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- **HDMI connection description**
  HDMI connector - Supports video and digital audio data.
  - HDMI outputs only a pure digital signal to the TV.
  - If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- **Why does Samsung use HDMI?**
  Analogueue TV's require an Analogueue video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-Analogueue converter (in the DVD Home Cinema) or an Analogueue-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.
- **What is the HDCP?**
  HDCP (High-band width Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.
- **What is Anynet+?**
  Anynet+ is a convenient function that offers linked operation of this unit through Samsung TV's with the Anynet+ feature.
  - If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
  - If you turn on the player and insert a disc, the player will start playing the disc, and the TV will turn on automatically and switch to HDMI mode.
  - If you turn on the player and press the Play button with a disc already inserted, the TV will immediately turn on and switch to HDMI mode.

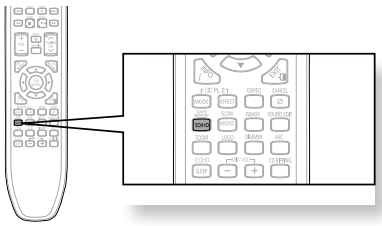
HDMI FUNCTION

Resolution Selection

This function allows the user to select the screen resolution for HDMI output.

In Stop mode, press and hold the **SD/HD** (Standard Definition/High Definition) button on the remote control until the resolution changes.

- Resolutions available for the HDMI output are 576p(480p), 720p, 1080i/1080p.
- SD(Standard Definition) resolution is 576p(480p) and HD (High Definition) resolution is 720p, 1080i/1080p.



- If the TV does not support the configured resolution, you will not be able to see the picture properly.
- When a HDMI cable is connected, composite(Video) and component video signals are not output.
- See your TV owner's manual for more information on how to select the TV's Video Input source.

Why use HDMI (High Definition Multimedia Interface)?

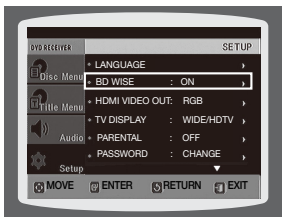
This device transmits a DVD video signal digitally without the process of converting to Analogueue. You will get sharper digital pictures when using an HDMI connection.

BD Wise (Samsung products only)

You can select to use the BD Wise menu only if the Samsung home theater is connected to a Samsung TV that supports BD Wise using an HDMI cable.

- **What is BD Wise?**
  BD Wise automatically adjusts BD Wise-compliant Samsung products to the optimal settings between them. This feature is enabled only if BD Wise-compliant Samsung products are connected to each other using an HDMI cable.
- **To use BD Wise**
  1. Use an HDMI cable to connect the Samsung home theater to a BD Wise-compliant Samsung TV.
  2. Set each BD Wise menu of the Samsung home theater and the Samsung TV to On, respectively.
     - This will optimize the picture quality according to the content (In the disc, DVD, etc) that you want to play.
     - This will also optimize the picture quality between the home theater and your BD Wise-compliant Samsung TV.

- If you want to change the resolution in BD Wise mode, you must set BD mode to Off in advance.
- If you set the BD Wise mode to off, the resolution of the connected TV will be adjusted to its maximum resolution automatically.
- BD Wise will be disabled if the player is connected to a device that does not support BD Wise.



HDMI FUNCTION

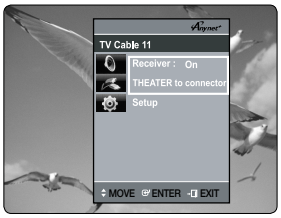
Using Anynet+(HDMI-CEC)

Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control. Anynet + can be used by connecting this Home Cinema to a SAMSUNG TV using a HDMI Cable. This is only available with SAMSUNG TV's that support Anynet+.

With Anynet+

You can operate this unit, power on your TV, or watch a movie by pressing the Play button on your Samsung TV's remote control.

1. Connect the main unit of the Home Cinema to a Samsung TV with an HDMI cable. (See page 25)
2. Set the Anynet+ function on your TV.
   (See the TV instruction manual for more information.)
   - You can operate the Home Cinema by using the TV remote control. (Available TV buttons : ◀◀, ■, ▶, ▶▶, ▲,▼ and ◀,▶ buttons, 0 ~ 9 button)



If you select the TV

Set the Anynet+(HDMI-CEC) to On by pressing the Anynet+ button on your TV remote control.

- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.

If you select the THEATER

Select **THEATER to connect** and set the option of each item below.

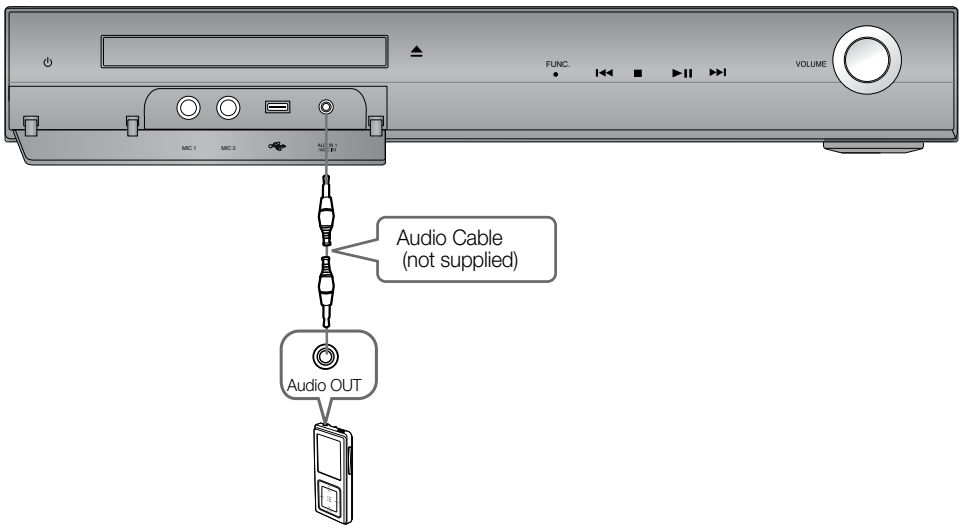
- **View TV** : If Anynet+(HDMI CEC) is set to on and you select View TV, the home cinema will automatically switch to digital in mode.
- **Theater Menu** : You can access and control the Home cinema menu.
- **Theater Operation** : The Home Cinema disc playback information will be displayed. You can control the Disc operation of the Home Cinema such as title, chapter and subtitle change.
- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.

▪ If you choose 'View TV' and want to listen to TV sound through Digital In, you have to connect an optical cable between the TV and the Home Theater.

CONNECTING AUDIO FROM EXTERNAL COMPONENTS

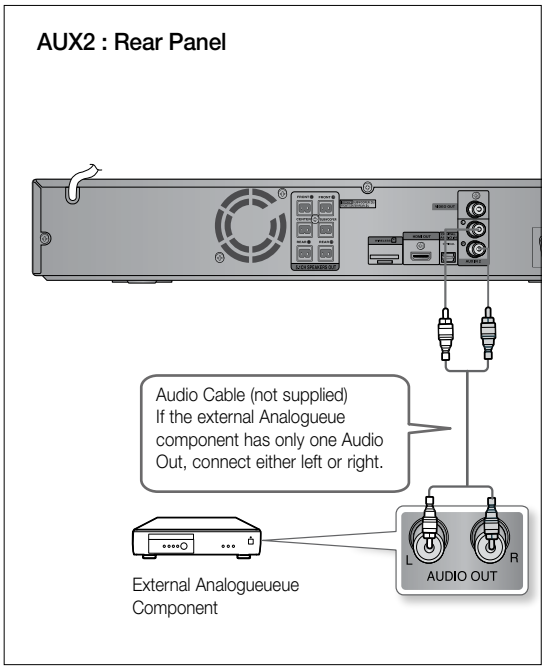
AUX1 : Connecting an External Component/MP3 player

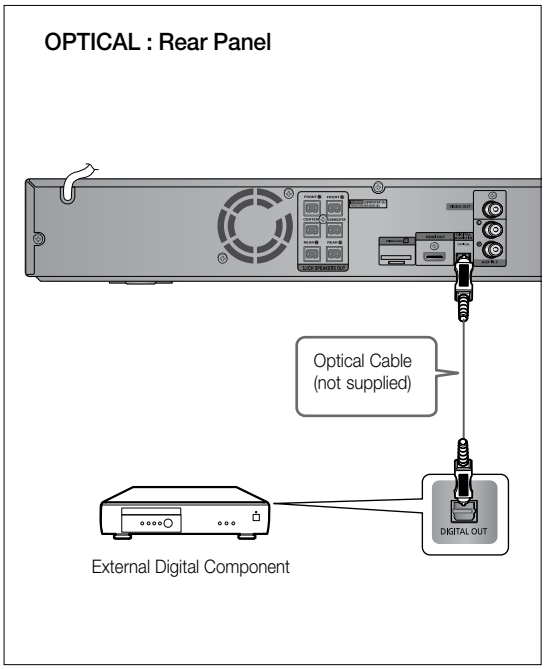
Components such as an MP3 Player.



1. Connect AUX IN 1 (Audio) on the Home Cinema to the Audio Out of the external component/ MP3 player.

2. Press the **AUX** button on the remote control to select **AUX1** input.
   - You can also use the **FUNCTION** button on the main unit.
     The mode switches as follows :
     DVD/CD → D.IN → AUX 1 → AUX 2 → USB → B/T → FM.


AUX2 : Rear Panel
Audio Cable (not supplied)
If the external Analogueue component has only one Audio Out, connect either left or right.
L
R
AUDIO OUT
External Analogueueue Component



AUX2 : Connecting an External Analogueue Component

Analogueue signal components such as a VCR.

1. Connect AUX IN 2 (Audio) on the Home Cinema to the Audio Out of the external Analogueue component.
   • Be sure to match connector colours.

2. Press the **AUX** button on the remote control to select **AUX 2** input.
   • You can also use the **FUNCTION** button on the main unit.
   The mode switches as follows :
   DVD/CD → D.IN → AUX 1 → AUX 2 → USB → B/T → FM.

▪ You can connect the Video Output jack of your VCR to the TV, and connect the Audio Output jacks of the VCR to this product.

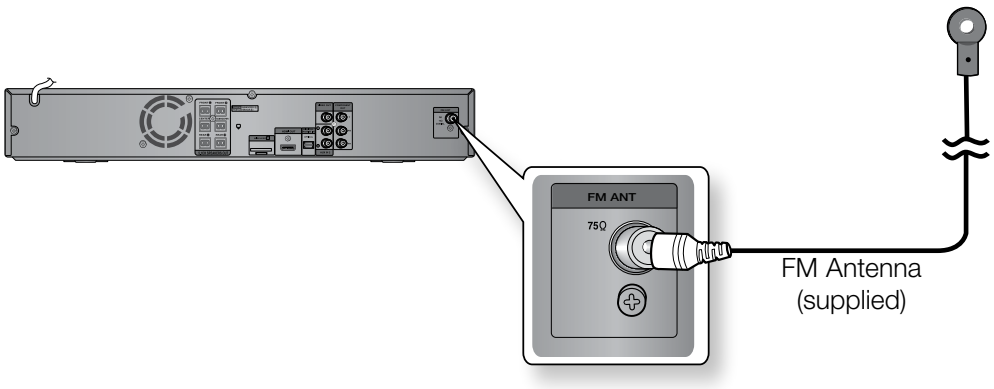
OPTICAL : Connecting an External Digital Component

Digital signal components such as a Cable Box/Satellite receiver (Set-Top Box).

1. Connect the Digital Input (OPTICAL) on the Home Cinema to the Digital Output of the external digital component.
2. Press the **AUX** button on the remote control to select **DIGITAL IN**.
   • You can also use the **FUNCTION** button on the main unit to select **D-IN**.
   The mode switches as follows :
   DVD/CD → D.IN → AUX 1 → AUX 2 → USB → B/T → FM.

CONNECTING THE FM ANTENNA

1. Connect the FM antenna supplied to the FM 75Ω COAXIAL Jack.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

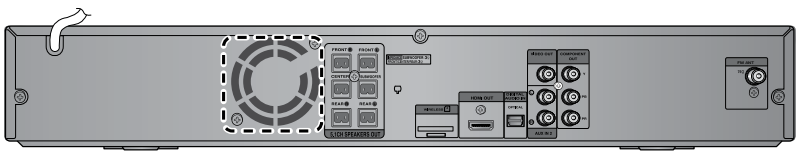


▪ This unit does not receive AM broadcasts.

Cooling Fan

The cooling fan supplies cool air to the unit to prevent overheating.
Please observe the following cautions for your safety.

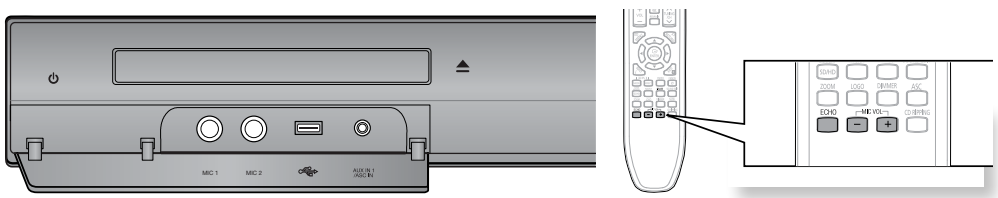
- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit may rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)



CONNECTING MICROPHONE

You can enjoy the feeling of a karaoke bar in the comfort of your home.
Watch the video and sing along the lyrics displayed on the TV screen against the accompaniment.

1. Connect the microphone to the MIC jack on the front panel.
   - You can connect up to two microphones.
   - When HDMI Audio/Bluetooth is on,Mic is not available.

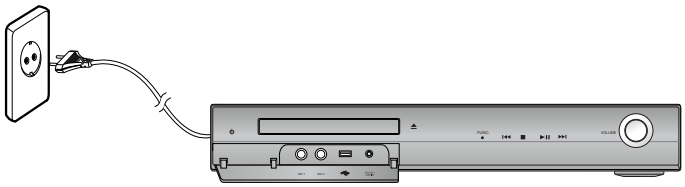


2. Press the **MIC +,-** button to adjust the voice volume of the microphone.
3. Press the **ECHO** button to adjust the echo level of the microphone.

before using your home cinema

The DVD Home Cinema's remote can be used to control Samsung TV's.

1. Plug the main unit's power cord into the AC power supply.



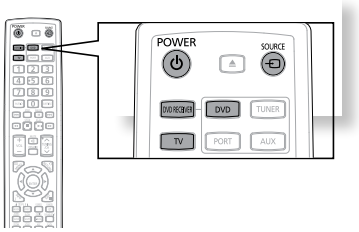
2. Press the **DVD RECEIVER** button to operate the DVD Home Cinema.

3. Press the **FUNCTION** button on the main unit or **DVD** button on the remote to enable DVD/CD playback.

4. Press the **TV** button to set the remote to TV mode.

5. Press the **POWER** button to turn on your Samsung TV with this remote.

6. Press the **SOURCE** button to select VIDEO mode on your TV.

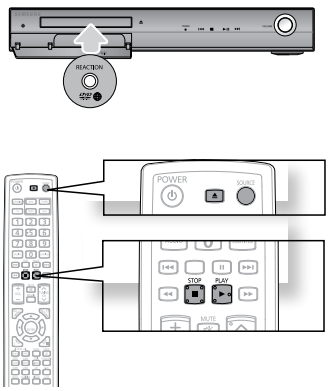


playback

DISC PLAYBACK

DVD CD

1. Press the **OPEN/CLOSE** (⏏) button to open the disc tray.
2. Load a disc.
   - Place a disc gently into the tray with the disc's label facing up.
3. Close the compartment by pressing the **OPEN/CLOSE** (⏏) button again.
   - Playback starts automatically.



To stop playback, press the STOP (■) button during playback.

- If pressed once, **PRESS PLAY** is displayed and the stop position will be stored in memory. If the **PLAY** (▶) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, **STOP** is displayed, and if the **PLAY** (▶) button is pressed, playback starts from the beginning.

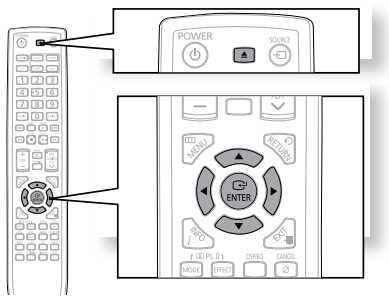
To temporarily pause playback, press the PAUSE (❚❚) button during playback.

- To resume playback, press the **PLAY** (▶) button.

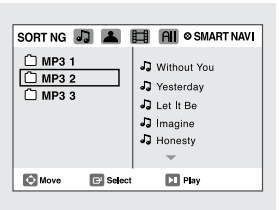
- The initial screen may appear different, depending on the content of the disc.
- Pirated discs will not run in this player because it violates the CSS (Content Scrambling System : a copy protection system) recommendations.

MP3/WMA-CD PLAYBACK

Data CDs (CD-R, CD-RW) encoded in MP3/WMA format can be played.



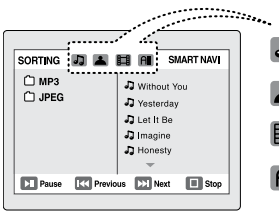
1. Place the MP3/WMA disc on the disc tray.
   - The MP3/WMA menu screen will appear and playback will start.
   - The appearance of the menu depends on the MP3/WMA disc.
   - WMA-DRM files cannot be played.
2. In Stop mode, use the Cursor ▲,▼,◀,▶ button to select the album, and then press the **ENTER** button.
   - Use the Cursor ▲,▼ button to select the track.
3. To change the album, use the Cursor ▲,▼,◀,▶ button to select another album in Stop mode, and then press the **ENTER** button.
4. Press the **STOP** (■) button to stop playback.



- Depending on the recording mode, some MP3/WMA-CDs may not play.
- Table of contents of a MP3-CD varies depending on the MP3/WMA track format recorded on the disc.

To play a file icon in the screen,

- **Press the Cursor ▲,▼,◀,▶ button when it is in Stop mode and select a desired icon from the top part of the menu.**



Music File Icon : To play music files only, select the Icon.

Image File Icon : To view image files only, select the Icon.

Movie File Icon : To view movie files only, select the Icon.

All File Icon : To view all files select the Icon.

JPEG FILE PLAYBACK

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this Home Cinema.

Slide Mode

JPEG

Place the JPEG disc on the disc tray.

- Playback starts automatically.
  Each image is displayed for 5 seconds and then the next image is displayed.

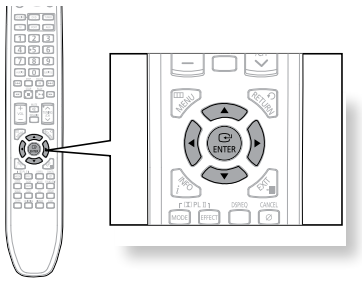
Press the ⏮,⏭ button to skip to the next slide.

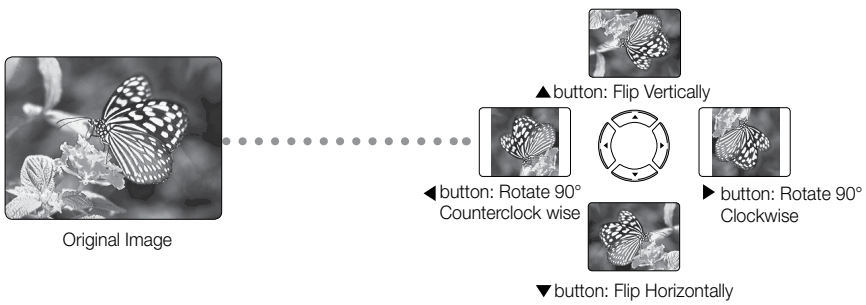
- Each time the button is pressed, the slide moves backward or forward.

Rotate/Flip Function

JPEG

Press the Cursor ▲,▼,◀,▶ button during playback.





- The maximum resolutions supported by this product are 5120 x 3480 (or 19.0 MPixel) for standard JPEG files and 2048 x 1536 (or 3.0 MPixel) for progressive image files.

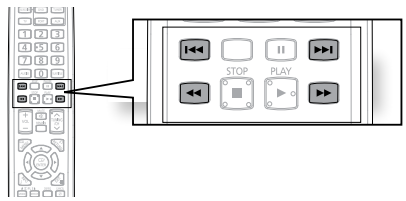
DIVX PLAYBACK

The functions on this page apply to DivX disc playback.

Skip Forward/Back

During playback, press the ⏮,⏭ button.

- Goes to the next file whenever you press the ⏭ button, if there are 2 files or more on the disc.
- Goes to the previous file whenever you press the ⏮ button, if there are 2 files or more on the disc.



Forward/Reverse Search

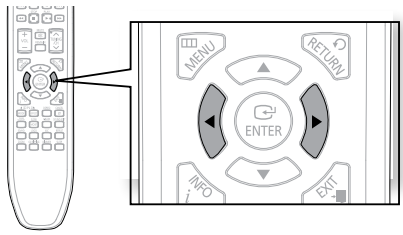
To play back the disc at a faster speed, press the ◀◀ or ▶▶ button during playback.

- Each time you press either button, the playback speed will change as follows:
  2x → 4x → 8x → 32x → Normal.

5 Minute Skip function

During playback, press the Cursor ◀,▶ button.

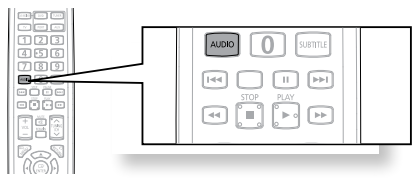
- Playback skips 5 minutes forward whenever you press the Cursor ▶ button.
- Playback skips 5 minutes back whenever you press the Cursor ◀ button.



Audio Display

Press the **AUDIO** button.

- If there are multiple audio languages on a disc, you can toggle between them.
- Each time you press the button, your selection will toggle between **AUDIO (1/N, 2/N ...)** and ✋.

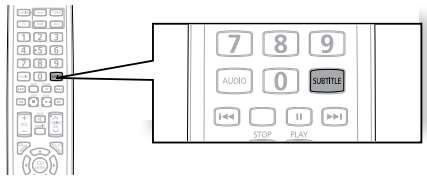


✎ ▪ ✋ is displayed when there is one supported language in the disc.

Subtitle Display

Press the **SUBTITLE** button.

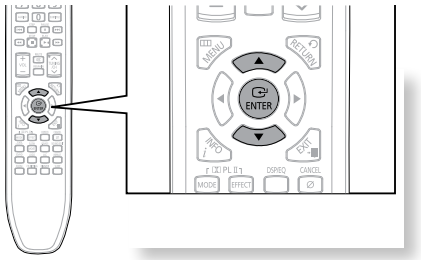
- Each time you press the button, your selection will toggle between **SUBTITLE (1/N, 2/N ...)** and **SUBTITLE OFF**.
- If the disc has only one subtitle file, it will be played automatically.
- See number 2 (Caption Function) on the next page for more details concerning Subtitle usage with DivX discs.



If the Disc has more than One Subtitle File

If the disc has more than one subtitle file, the default subtitle may not match the movie and you will have to select your subtitle language as follows:

1. In Stop mode, press the Cursor ▲,▼ button, select the desired subtitle ( ) from the TV screen, and then press the **ENTER** button.
2. When you select the desired DivX file from the TV screen, the movie will be played normally.



DivX(Digital internet video eXpress)

DivX is a video file format developed by Microsoft and is based on MPEG4 compression technology to provide audio and video data over the Internet in real-time.

MPEG4 is used for video encoding and MP3 for audio encoding so that the users can watch a movie at near DVD-quality video and audio.

1. Supported Formats

This product only supports the following media formats.If both video and audio formats are not supported, you may experience problems such as broken images or no sound.

Supported Video Formats

Format	AVI	WMV
Supported Versions	DivX3.11~DivX5.1, XviD	V1/V2/V3/V7

Supported Audio Formats

Format	MP3	WMA	AC3	DTS
Bit Rate	80~384kbps	56~128kbps	128~384kbps	1.5Mbps
Sampling Frequency	44.1khz		44.1/48khz	44.1khz

- DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
- Aspect Ratio : Although the default DivX resolution is 640x480 pixels, this product supports up to 800x600 pixels. TV screen resolutions higher than 800 will not be supported.
- When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.

2. Caption Function

- You must have some experience with video extraction and editing in order to use this feature properly.
- To use the caption function, save the caption file (*.smi) in the same file name as that of the DivX media file (*.avi) within the same folder.
  Example. Root Samsung_007CD1.avi
  Samsung_007CD1.smi
- Up to 60 alphanumeric characters or 30 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.

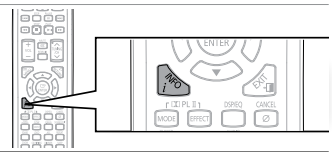
USING THE PLAYBACK FUNCTION

Displaying Disc Information

DVD CD MP3 JPEG DivX

You can view disc playback information on the TV screen.

Press the **INFO** button.



- The disc information display may appear different, depending on the disc.
- You can also select DTS, DOLBY DIGITAL, or PRO LOGIC, depending on the disc.

appears on the TV screen!

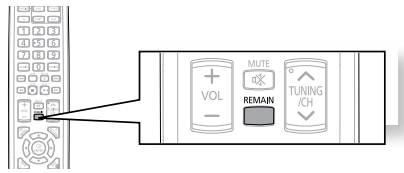
If this symbol appears on the TV screen when pressing a button, that operation is not possible with the disc currently being played.

Checking the Remaining Time

DVD CD MP3

Press the **REMAIN** button.

- For checking the total and remaining time of a title or chapter being played.



Each time the Remain button is pressed

DVD-VIDEO TITLE ELAPSED → TITLE REMAIN → CHAPTER ELAPSED → CHAPTER REMAIN

CD TRACK ELAPSED → TRACK REMAIN → TOTAL ELAPSED → TOTAL REMAIN

MP3 TRACK REMAIN → TRACK ELAPSED

Forward/Reverse Search

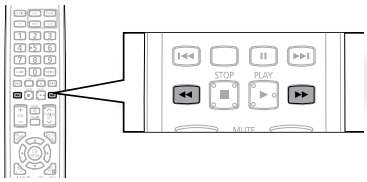
DVD CD MP3 DivX

Press the ◀◀,▶▶ button.

- Each time the button is pressed during playback, the playback speed changes as follows:

◀◀ 2X → ◀◀ 4X → ◀◀ 8X → ◀◀ 32X → ▶ PLAY

▶▶ 2X → ▶▶ 4X → ▶▶ 8X → ▶▶ 32X → ▶ PLAY



- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.

Slow Playback

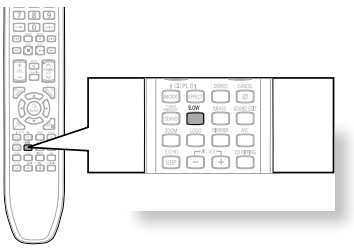
DVD DivX

Press the **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:

DVD: ▮▶1/2 →▮▶1/4 →▮▶1/8 →◀▮1/2 →◀▮1/4 →◀▮1/8 → ▶ PLAY

DivX: ▮▶1/2 →▮▶1/4 →▮▶1/8 → ▶ PLAY



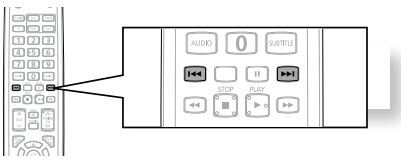
- No sound is heard during slow playback.
- Reverse slow playback does not work with DivX.

Skipping Scenes/Songs

DVD MP3

Press the ⏮,⏭ button.

- Each time the button is pressed during playback, the previous or next chapter, track or directory (file) will be played.
- You cannot skip chapters consecutively.

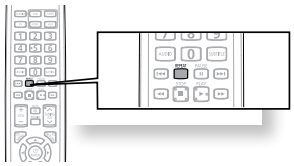


USING THE PLAYBACK FUNCTION

Repeat Playback

DVD CD MP3 JPEG DivX

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).



Press the **REPEAT** button.

- Each time the button is pressed during playback, the repeat playback mode changes as follows:

DVD-VIDEO REPEAT : CHAPTER → REPEAT : TITLE → REPEAT : OFF

CD REPEAT : TRACK → REPEAT : DISC → REPEAT : OFF

MP3 JPEG DivX REPEAT : RANDOM → REPEAT : TRACK → REPEAT : DIR → REPEAT : DISC → REPEAT : OFF

Repeat Playback Options

CHAPTER : Repeatedly plays the selected chapter.
TITLE : Repeatedly plays the selected title.
RANDOM : Plays tracks in random order. (A track that has already been played may be played again.)
TRACK : Repeatedly plays the selected track.
DIR : Repeatedly plays all tracks in the selected folder.
DISC : Repeatedly plays the entire disc.
OFF : Cancels Repeat Playback.

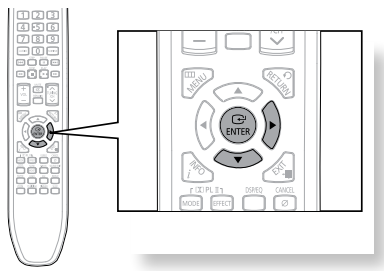
To Select a Repeat Playback Mode in the Disc Information Screen

DVD CD

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (↻) display.
3. Press the Cursor ▼ button to select the desired Repeat Playback mode.
   - To select another album and track, repeat Steps 2 and 3 above.
4. Press the **ENTER** button.

DVD OFF → A- → CHAP → TITLE → OFF

CD OFF → A- → TRACK → DISC → OFF

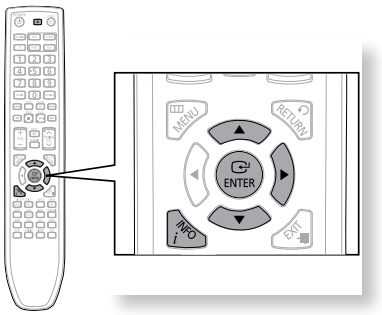


- For DivX, MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.

A-B Repeat Playback

You can repeatedly play back a designated section of a DVD or CD.

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (↻) display.
3. Press the Cursor ▲,▼ button to select **A-** and then press the **ENTER** button.
   - When the **ENTER** button is pressed, the selected position will be stored in memory.
4. Press the **ENTER** button at the end of the desired segment.
   - The specified segment will be played repeatedly.



➢ To return to normal playback, press the Cursor ▲,▼ button to select ↻ OFF.

▪ The A-B Repeat function does not operate with DivX, MP3 or JPEG discs.

USING THE PLAYBACK FUNCTION

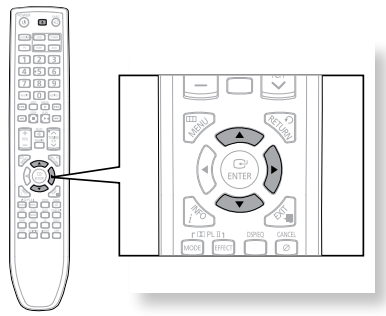
Angle Function

DVD

This function allows you to view the same scene in different angles.

1. Press the **INFO** button.
2. Press the Cursor ▶ button to move to ANGLE ( ) display.
3. Press the Cursor ▲,▼ button or numeric buttons to select the desired angle.
   - Each time the button is pressed, the angle changes as follows:

   1/3 → 2/3 → 3/3 → 1/3



▪ The Angle function works only with discs on which multiple angles have been recorded.

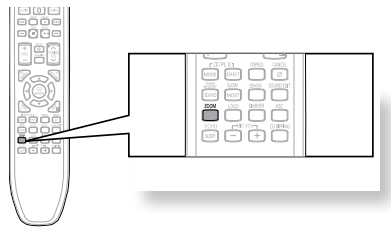
Zoom (Screen Enlarge) Function

DVD

This function allows you to enlarge a particular area of the displayed image.

1. Press the **ZOOM** button.
2. Press the Cursor ▲,▼,◀,▶ button to move to the area you want to enlarge.
3. Press the **ENTER** button.
   - Each time the button is pressed, the zoom level changes as follows:

   ZOOM X 1.5 →ZOOM X 2 →ZOOM X 3 →ZOOM OFF



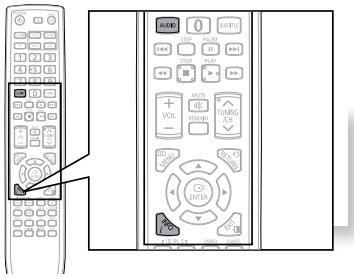
USING THE PLAYBACK FUNCTION

Audio Language Selection Function

DVD

1. Press the **INFO** button twice.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired audio language.
   - Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.

   EN 1/3 → SP 2/3 → FR 3/3 → EN 1/3

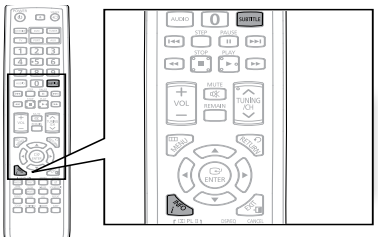


Subtitle Language Selection Function

DVD

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to **SUBTITLE** ( ) display.
3. Press the Cursor ▼ button or numeric buttons to select the desired subtitle.

   EN 01/03 → SP 02/03 → FR 03/03 → OFF/03 → EN 01/03



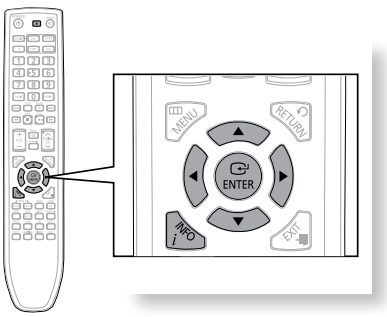
- To operate this function, you can also press the AUDIO or SUBTITLE buttons on the remote control.
- Depending on the disc, the Subtitle and Audio Language functions may not be available.

Moving Directly to a Scene/Song

DVD CD MP3 JPEG

DVD CD

1. Press the **INFO** button.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired title/track ( ) and then press the **ENTER** button.
3. Press the Cursor ◀,▶ button to move to the Chapter ( ) display.
4. Press the Cursor ▲,▼ button or numeric buttons to select the desired chapter and then press the **ENTER** button.
5. Press the Cursor ◀,▶ button to move to the time ( ) display.
6. Press the numeric buttons to select the desired time and then press the **ENTER** button.



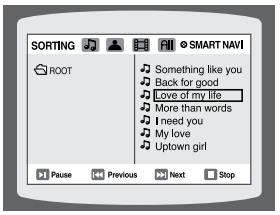
Moving Directly to a Scene/Song

DVD CD MP3 JPEG

MP3 JPEG

Press the **numeric** buttons.

- The selected file will be played.
- When playing an MP3 or JPEG disc, you cannot use the Cursor ▲,▼ button to move to a folder.
  To move a folder, press the **STOP** (■) and then press the Cursor ▲,▼ button.



- You can press the ⏮,⏭ button on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

Using the Disc Menu

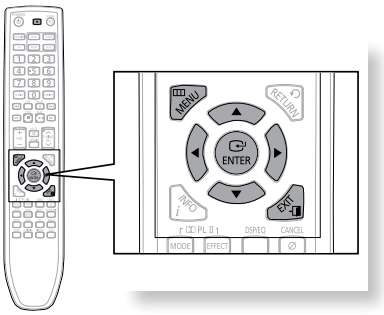
DVD

You can use the menus for the audio language, subtitle language, profile, etc.

DVD menu contents differ from disc to disc.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button to move to **Disc Menu** and then press the **ENTER** button.
   - When you select Disc Menu and it is not supported by the disc, the "**This menu is not supported**" message appears on the screen.
3. Press the Cursor ▲,▼,◀,▶ button to select the desired item.
4. Press the **ENTER** button.

➢ **Press the EXIT button to exit the setup screen.**



- The disc menu display may be different from disc to disc.

USING THE PLAYBACK FUNCTION

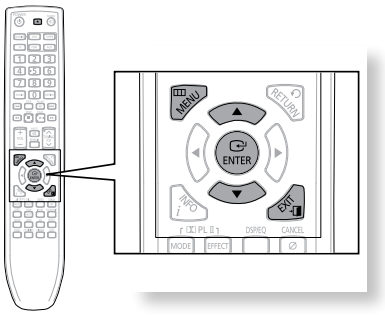
Using the Title Menu

DVD

For DVDs containing multiple titles, you can view the title of each movie. Depending on the disc, the availability of this feature may vary.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button to move to **Title Menu**.
3. Press the **ENTER** button.
   - The title menu appears.

➢ **Press the EXIT button to exit the setup screen.**



▪ The Title menu display may be different from disc to disc.

USING BLUETOOTH

You can use a Bluetooth device to enjoy music with high quality stereo sound, all without wires!

What is Bluetooth?

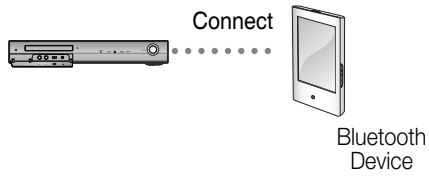
Bluetooth is a new technology that enables Bluetooth-compliant devices to easily interconnect with each other using a short wireless connection.

- A Bluetooth device may cause a noise or malfunction, depending on usage.
  - When a part of the body is in contact with the receiving/transmitting system of the Bluetooth device or the Home Cinema System.
  - Electrical variation from electrical jamming by the wall, corner or office partitioning.
  - Electrical interference from the same frequency-band devices including medical equipment, microwave oven and wireless LAN.
- Pair the Home Cinema System with the Bluetooth device while maintaining a close distance.
- The further the distance is between Home Cinema System and Bluetooth device, the worse the quality. If the distance exceeds the Bluetooth operational range, the connection is lost.
- In poor reception-sensitivity areas, the Bluetooth connection may not work properly.
- The Home Cinema System has an effective reception range of up to 10 m in all directions if there are no obstacles. The connection will be automatically cut off if the distance is out of this range. Even within this range, the sound quality may be deteriorated by obstacles such as walls or doors.

To connect the Home Cinema System to a bluetooth device

Check if the Bluetooth device supports the Bluetooth-compliant stereo headset function.

1. Press the **FUNCTION** button on the front panel of the home cinema system repeatedly until the "**B/T**" appears.
   - The mode switches as follows :
     DVD/CD → D.IN → AUX 1 → AUX 2 → USB → B/T → FM.
   - You will see "**WAIT**" for 2 seconds and then "**READY**" on the front display of the Home Theater System.
2. Select the Bluetooth menu on the Bluetooth device you want to connect. (refer to Bluetooth device's user manual)
3. Select a Stereo headset menu on the Bluetooth device.
   - You will see a list of scanned devices.
4. Select "**Samsung Home Theater**" from the searched list.
   - When the Home Cinema System is connected to the Bluetooth device, the Home Cinema System will display "**Connect**" on the front display, followed by the name of the connected Bluetooth device.
   - The Home Cinema System connection is complete.
5. Play music on the connected device.
   - You can listen to the music playing on the connected Bluetooth device over the home cinema system.

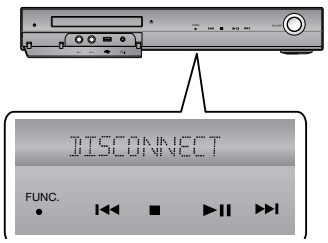


- You may be required to enter a PIN code(password) when connecting the Bluetooth device to the home cinema system. If the PIN code input window appears, enter <0000>.
- The Home Cinema System may control play related function only when connected device supports the function.
- If connected device dose not support some play related function, the Home Cinema System can't control the device.
- The Home Cinema System only supports Middle Quality SBC data(up to 237kbps@48kHz), and does not support High Quality SBC data(328kbps@44.1kHz).

To disconnect the Bluetooth device from the Home Cinema System

You can disconnect the Home Cinema System from the Bluetooth device (refer to Bluetooth devices' user manual).

- The Home Cinema System will be disconnected.
- When the Home Cinema System is disconnected from the Bluetooth device, the Home Cinema System will display "**DISCONNECT**" on the front display.



To disconnect the Home Cinema System from the Bluetooth device

Press the **FUNCTION** button on the front panel of the home cinema system to switch from "**BT AUDIO**" to another mode.

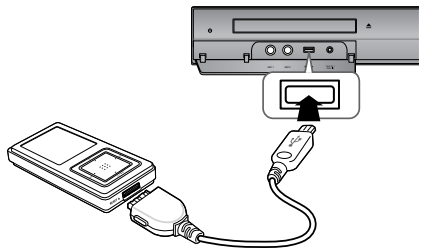
- The bluetooth device connected will wait a certain time for response from the home cinema system before terminating the connection. (Time to disconnection may differ, depending on the bluetooth device)
- The currently connected device will be disconnected.

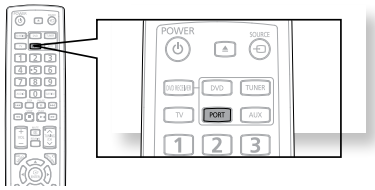
- In Bluetooth connection mode, the Bluetooth connection will be lost if the distance between the Home Cinema System and the Bluetooth device exceeds 10 m.
  If the distance is returned to the effective range or you restart the Bluetooth device, the Bluetooth connection can be restored.
- With some bluetooth devices, some functions may not work properly.
- The DOLBY PRO LOGIC II modes do not work in Bluetooth connection mode.

PLAYING MEDIA FILES USING THE USB HOST FEATURE

You can enjoy media files such as pictures, movies and music saved on an MP3 player, USB memory stick or digital camera in high quality video with 5.1 channel Home Cinema sound by connecting the storage device to the USB port of the Home Cinema.

1. Connect the USB device to the USB port on the front of the unit.
2. Press the **FUNCTION** button on the DVD Player or the **PORT** button on the remote control to select the USB mode.
   - **USB** appears on the display screen and then disappears.
   - The USB MENU screen appears on the TV screen and the saved file is played.
3. To stop playback, press the **STOP** (■) button.

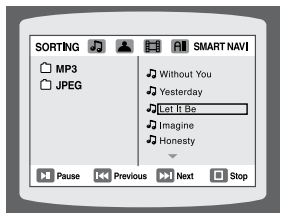




Safe PORT Removal

To prevent damage to the memory stored in the USB device, perform safe removal before disconnecting the USB cable.

- Press the **STOP** (■) button twice in a row. The display will show **REMOVE USB**.
- Remove the USB cable.

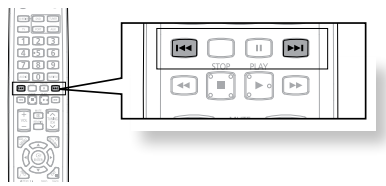


- To listen to your music files with 5.1 channel home cinema sound, you must set the Dolby Pro Logic II mode to Matrix. (See page 59)
- In USB mode, you are not able to change the resolution or use the SETUP menu if there is no USB device connected to the USB port.

Skip Forward/Back

During playback, press the ⏮,⏭ button.

- When there is more than one file and you press the ⏭ button, the next file is selected.
- When there is more than one file and you press the ⏮ button, the previous file is selected.

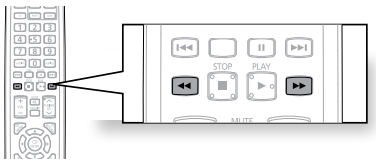


Fast playback

During playback, press the ◀◀,▶▶ button.

- Each time you press either button, the playback speed will change as follows:

2x → 4x → 8x → 32x → Normal.



USB Host Specifications

USB Host Specification	• Supports USB 1.1 or USB 2.0 compliant devices. • Supports devices connected using the USB A type cable. • Supports UMS (USB Mass Storage Device) V1.0 compliant devices. • Supports the device of which the connected drive is formatted in the FAT(FAT, FAT16, FAT32) file system.
Non-compliance	• Does not support a device that requires installing a separate driver on the PC (Windows). • Does not support connection to a USB hub. • A USB device that is connected using the USB extension cable may not be recognized. • A USB device requiring a separate power source needs to be connected to the player with the separate power connection.
Operational Limitations	• If the connected device has multiple drives (or partitions) installed, only one drive (or partition) can be connected. • A device supporting USB 1.1 alone may cause a difference in the picture quality, depending on the device.

USB Devices that can be used with the Home Theater

1. USB Storage Device

2. MP3 Player

3. Digital Camera

4. Removable HDD
- Removable HDDs equipped with less than 160 Gbytes are supported. Removable HDDs equipped with 160Gbytes or more may not be recognized, depending on the device.
- If the connected device does not work due to insufficient power supply, you can use a separate power cable to supply power so that it can work properly. The connector of the USB cable may differ, depending on the manufacturer of the USB device.

5. USB card Reader: One slot USB card reader and Multi slot USB card reader.
- Depending on the manufacturer. the USB card reader may not be supported.
- If you install multiple memory devices into a multi card reader, you may experience problems.

Compliant File Formats

Format	File name	File extension	Bit rate	Version	Pixel	Sampling Frequency
Still Picture	JPG	JPG .JPEG	–	–	640x480	–
Music	MP3	.MP3	80~384kbps	–	–	44.1kHz
	WMA	.WMA	56~128kbps	V8	–	44.1kHz
Movie	WMV	.WMV	4Mbps	V1,V2,V3,V7	720x480	44.1KHz~48KHz
	DivX	.AVI,.ASF	4Mbps	DivX3.11~ DivX5.1, XviD	720x480	44.1KHz~48KHz

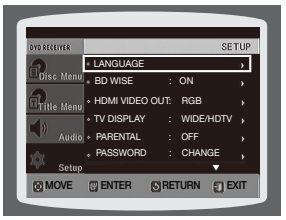
- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. (Only FAT 16/32 (File Allocation Table 16/32) file system is supported.)
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.

system setup

For your convenience, you can set this DVD Home Cinema's features for the best use in your home environment.

SETTING THE LANGUAGE

OSD(On-Screen Display) language is set to English by default.

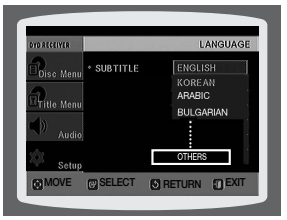


1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Select **Language** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select **OSD Language** and then press the **ENTER** button.
5. Press the Cursor ▲,▼ button to select the desired language and then press the **ENTER** button.
   - Once the setup is complete, the OSD will be English if English has been selected as language.

➢ Press the **RETURN** button to return to the previous level.
➢ Press the **EXIT** button to exit the setup screen.

- **OSD LANGUAGE** : Selecting the OSD Language
- **AUDIO** : Selecting the Audio Language (recorded on the disc)
- **SUBTITLE** : Selecting the Subtitle Language (recorded on the disc)
- **DISC MENU** : Selecting the Disc Menu Language (recorded on the disc)

※ If the language you selected is not recorded on the disc, the menu language will not change even if you set it to your desired language.



OTHERS : To select another language, select OTHERS and enter the language code of your country (see page 68). AUDIO, SUBTITLE and DISC MENU languages can be selected.

SETTING THE HDMI VIDEO OUT MODE

Selects the type of output from the HDMI/OUT jack.

- **YCbCr** : Normally, select this when connecting to an HDMI device.
- **RGB** : Gives brighter colours and deeper blacks. Select this if colours are weak.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **HDMI VIDEO OUT** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired item and then press the **ENTER** button.
   - Once the setup is complete, you will be taken to the previous screen.

➢ Press the **RETURN** button to return to the previous level.
➢ Press the **EXIT** button to exit the setup screen.

SETTING THE TV SCREEN TYPE

You can select the TV's aspect ratio, depending on your TV type (Widescreen or conventional 4:3).

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TV DISPLAY** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired item and then press the **ENTER** button.
   - Once the setup is complete, you will be taken to the previous screen.

➢ Press the **RETURN** button to return to the previous level.
➢ Press the **EXIT** button to exit the setup screen.

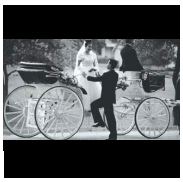
Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TV's is 4:3, while that of widescreen and high definition TV's is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen sizes, you should adjust the aspect ratio to fit your TV or monitor.

For a standard TV, select either **4:3PS** or **4:3LB** option according to personal preference.
Select **WIDE/HDTV** if you have a widescreen TV.

4:3PS (4:3 Pan&Scan)
Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.
- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).

4:3LB (4:3 Letterbox)
Select this to play a 16:9 picture in the letter box mode on a conventional TV.
- Black bars will appear at the top and bottom of the screen.



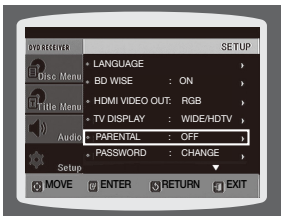
WIDE/HDTV
Select this to view a 16:9 picture in the full-screen mode on your widescreen TV.
- You can enjoy the widescreen aspect.

- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.
- When using HDMI, the screen is automatically converted to Wide mode.

SETTING PARENTAL CONTROLS (RATING LEVEL)

Use this to restrict playback of adult or violent DVDs you do not want children to view.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PARENTAL** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired rating level and then press the **ENTER** button.
   - If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
   - The higher the level, the closer the content is to violent or adult material.
5. Enter the password and then press the **ENTER** button.
   - The password is set to "7890" by default.
   - Once the setup is complete, you will be taken to the previous screen.



➢ Press the **RETURN** button to return to the previous level.

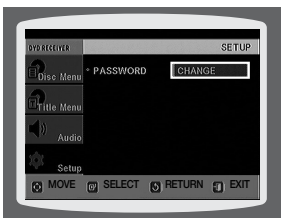
➢ Press the **EXIT** button to exit the setup screen.

▪ This function works only if a DVD disc contains the rating level information.

SETTING THE PASSWORD

You can set the password for the Parental (rating level) setting.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PASSWORD** and then press the **ENTER** button.
4. Press the **ENTER** button.
5. Enter the password and then press the **ENTER** button.
   - Enter the old password, a new password, and confirm new password.
   - The setting is complete.



▪ The password is set to "7890" by default.

If you have forgotten the rating level password, do the following

- While the player is in No Disc mode, hold the remote control's **STOP** (■) button for longer than 5 seconds. **INITIAL** appears on the display and all settings will return to the default values.
- Press the **POWER** button.

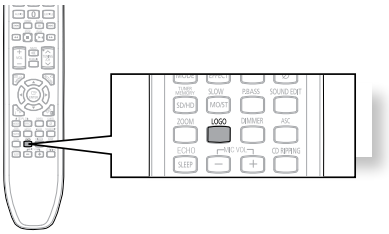
Using the RESET function will erase all stored settings.
Do not use this unless necessary.

SETTING THE WALLPAPER

DVD JPEG

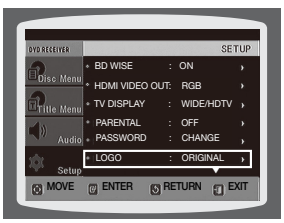
While watching a DVD or JPEG CD, you can set the image you like as background wallpaper.

1. During playback, press the **PAUSE** button when an image you like appears.
2. Press the **LOGO** button.
   - **COPY LOGO DATA** will be displayed on the TV screen.
3. The power will turn off and then back on.
   - The selected wallpaper will be displayed.
   - You can select up to 3 wallpaper settings.



TO SELECT ONE OF THE 3 WALLPAPER SETTINGS YOU'VE MADE

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **LOGO** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired **USER**, and then press the **ENTER** button.
   - This selects one of the 3 wallpaper screens.
5. Press the **EXIT** button to exit the setup screen.



- **ORIGINAL** : Select this to set the Samsung Logo image as your wallpaper.
- **USER** : Select this to set the desired image as your wallpaper.

➢ Press the **RETURN** button to return to the previous level.

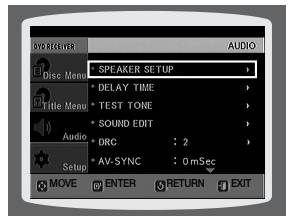
➢ Press the **EXIT** button to exit the setup screen.

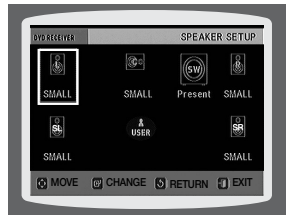
DivX (R) Registration

Please use the Registration code to register this player with the DivX (R) video on demand format.
To learn more, go to www.divx.com/vod.

SETTING THE SPEAKER MODE

Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.





1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. In the **SPEAKER SETUP**, press the **ENTER** button again.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
   - For C, SL, and SR, each time the button is pressed, the mode switches alternately as follows : SMALL → NONE.
   - For L and R, the mode is set to SMALL.

- **SMALL** : Select this when using the speakers.
- **NONE** : Select this when no speaker is connected.

➢ Press the **RETURN** button to return to the previous level.
➢ Press the **EXIT** button to exit the setup screen.

▪ Depending on PRO LOGIC and STEREO settings, the speaker mode may vary (see page 59).

SETTING THE DELAY TIME

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the Centre and rear speakers.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DELAY TIME** and then press the **ENTER** button.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
5. Press the Cursor ◀,▶ to set the Delay time.
   - You can set the delay time for C between 00 and 05mSEC and for SL and SR between 00 and 15mSEC.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same.
Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Centre and Rear Speakers.

Setting Centre SPEAKER

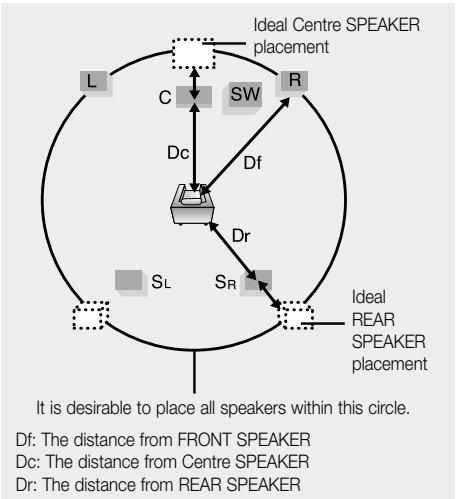
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

Distance between Df and Dc	0.00 m	0.34 m	0.68 m	1.06 m	1.40 m	1.76 m
Delay Time	0 ms	1 ms	2 ms	3 ms	4 ms	5 ms

Setting REAR SPEAKER

If the distance of Dc is equal to or longer than the distance of Dr in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

Distance between Df and Dc	0.00 m	1.06 m	2.11 m	3.16 m	3.62 m	5.29 m
Delay Time	0 ms	3 ms	6 ms	9 ms	12 ms	15 ms



- With **PL II** (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.
- The Centre channel is only adjustable on 5.1 channel discs.

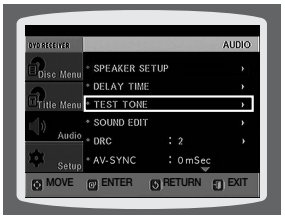
USING THE TEST TONE

Use the Test Tone feature to check the speaker connections.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TEST TONE** and then press the **ENTER** button.
   - The test tone will be sent to **L → C → R → SR → SL → SW** in order.
     If the **ENTER** button is pressed again at this time, the test tone will stop.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.



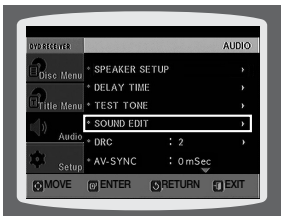
SETTING THE AUDIO

You can adjust the balance and level for each speaker.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **SOUND EDIT** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select and adjust the desired item. Press the Cursor ◀,▶ button to adjust the settings.

➢ Press the **RETURN** button to return to the previous level.

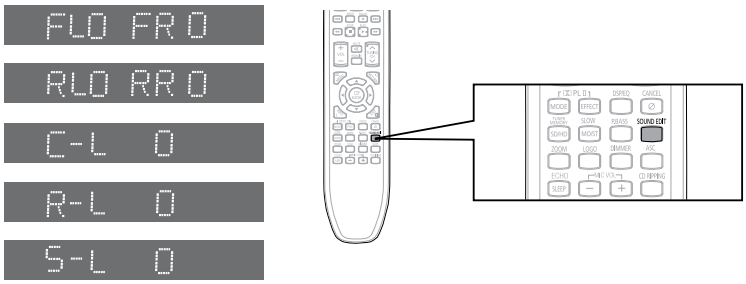
➢ Press the **EXIT** button to exit the setup screen.



SETTING THE AUDIO

Manually Adjusting the Speaker Volume and Balance with the SOUND EDIT Button.

Press the **SOUND EDIT** button and then press the Cursor ◀,▶ button.



Adjusting Front/Rear Speaker Balance

- You can select between 0, -6, and OFF.
- The volume decreases as you move closer to –6.

Adjusting Centre/Rear/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to –6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.

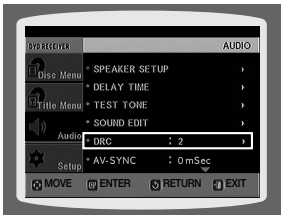
SETTING THE DRC (DYNAMIC RANGE COMPRESSION)

This feature balances the range between the loudest and quietest sounds. You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DRC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ to adjust the **DRC**.
   - When the Cursor ▲ button is pressed, the effect is greater, and when the Cursor ▼ button is pressed, the effect is smaller.

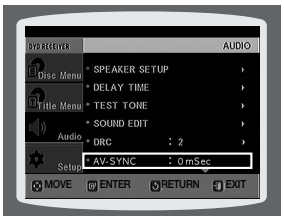
➢ Press the **RETURN** button to return to the previous level.

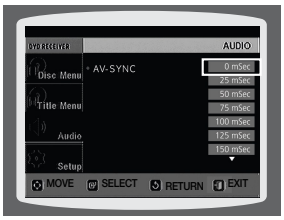
➢ Press the **EXIT** button to exit the setup screen.



SETTING THE AV SYNC

Video may look slower than the audio if it is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.





1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **AV-SYNC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the AV-SYNC Delay Time and then press the **ENTER** button.
   - You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

SETTING THE HDMI AUDIO

The audio signals transmitted over the HDMI Cable can be toggled ON/OFF.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **HDMI AUDIO** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select **ON** or **OFF** and then press the **ENTER** button.

- **ON :** Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.
- **OFF :** Video is transmitted over the HDMI connection cable only, and audio is output through the home cinema speakers only.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

- The default setting of this function is HDMI AUDIO OFF.
- HDMI AUDIO is automatically down-mixed to 2ch for TV speakers.
- When HDMI AUDIO is on,PRO LOGIC II /DSP EQ/P.BASS doesn't work.

SOUND FIELD (DSP)/EQ FUNCTION

DSP(Digital Signal Processor) : DSP modes have been designed to simulate different acoustic environments.
EQ : You can select ROCK, POP, or CLASSIC to optimize the sound for the genre of music you are playing

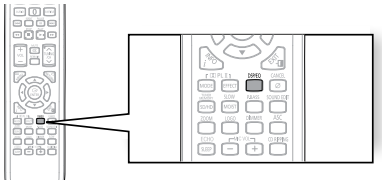
Press the DSP/EQ button.

- **DSP** appears on the display panel.

Each time the button is pressed, the selection changes as follows:

POPS → JAZZ → ROCK → STUDIO → CLUB → HALL → MOVIE → CHURCH → PASS

- **POPS, JAZZ, ROCK** : Depending on the genre of music, you can select POP, JAZZ, and ROCK.
- **STUDIO** : Provides a sense of presence as if in a studio.
- **CLUB** : Simulates the sound of a dance club with a throbbing bass beat.
- **HALL** : Provides a clear vocal as if listening in a concert hall.
- **MOVIE** : Provides the feeling of a movie cinema.
- **CHURCH** : Gives the feel of being in a grand church.
- **PASS** : Select this for normal listening.



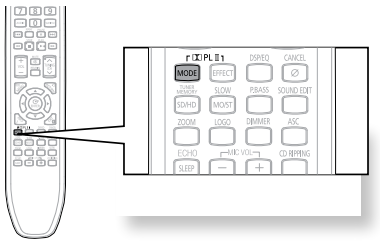
- The DSP/EQ function is only available in STEREO mode.
  Press the **PL II mode** button to show STEREO on the display.
- This feature works with CDs, MP3-CDs, DivX, tuner and Dolby Digital discs.
- When playing a DVD disc encoded with two or more channels, the multi-channel mode will be selected automatically and DSP/EQ does not work.

DOLBY PRO LOGIC II MODE

You can select the desired Dolby Pro Logic II audio mode.

Press the **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.
  MUSIC → CINEMA → PRO LOGIC → MATRIX → STEREO → MUSIC



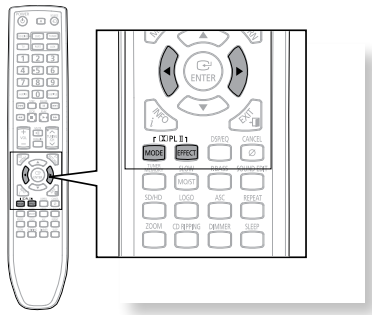
PRO LOGIC II

- **MUSIC** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA** : Adds realism to the movie soundtrack.
- **PRO LOGIC** : You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- **MATRIX** : You will hear 5.1 channel surround sound.
- **STEREO** : Select this to listen to sound from the front left and right speakers and the subwoofer only.

- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.
- PRO LOGIC II function is only available in STEREO mode.

DOLBY PRO LOGIC II EFFECT

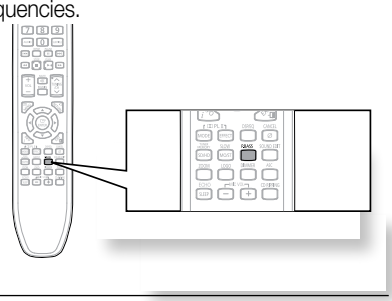
This function works only in Dolby Pro Logic MUSIC mode.



1. Press the **PL II MODE** button to select **MUSIC** mode.
2. Press the **PL II EFFECT** button.
3. Press the ◀,▶ buttons to select the desired effect setting.
   - PANORAMA : You can select either 0 or 1.
   - C- WIDTH : You can select between 0 and 7.
   - DIMENS : You can select between 0 and 6.

P.BASS

The P.BASS function provides a bass boost to reinforce the low frequencies.

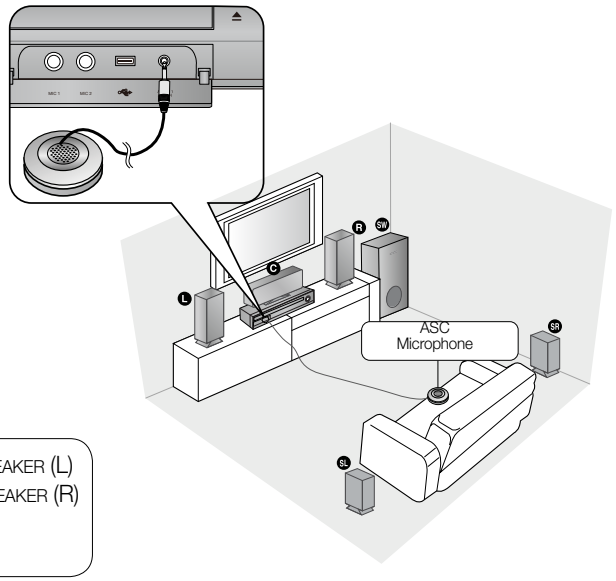


1. Press the **P.BASS** button to select P.BASS mode.
2. Press the **P.BASS** button again to turn off the P.BASS mode.

- The P.BASS function is only available with 2 channel LPCM sources such as mp3,Divx,cd and wma. Press P.BASS button and "POWER BASS ON" will be displayed on the screen.
- The P.bass does not work with DSP/EQ or DOLBY PRO LOGIC II modes.
  If you press P.BASS in the DSP/EQ mode, the DSP/EQ mode is automatically shut off and the P. BASS function comes on.

ASC (Auto Sound Calibration) SETUP

By setting the ASC function just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 5.1-channel sound field optimized for your environment.



L: FRONT SPEAKER (L)
R: FRONT SPEAKER (R)
C: CENTRE SPEAKER
SW: SUBWOOFER
SL: REAR SPEAKER (L)
SR: REAR SPEAKER (R)

- ASC SETUP can be made when there is no disc in the unit.
- Because the volume level of the tone is fixed during the ASC setup, you cannot adjust the volume using the volume control buttons.
- If the auto sound microphone is disconnected during the ASC setup, the setup will be cancelled.
- When ASC function is activated, the DSP/EQ, DOLBY PRO LOGIC II, and P. BASS sound effects will not work.

To Verify the ASC

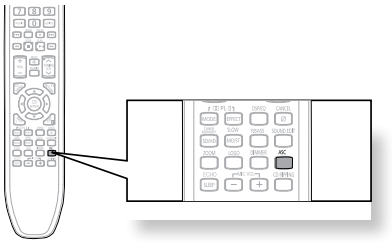
Briefly press the **ASC** button.

• Distance and level values specified for each channel will appear in the display.

ASC (Auto Sound Calibration) SETUP

1. Plug the ASC microphone into the ASC input jack.
2. Place the ASC microphone at the listening position.
3. Press **ASC** button.
   - To create the optimal 5.1 channel sound field, the selections are in the following sequence:

     L → C → R → SR → SL → SW
4. When the message "REMOVE MIC" appears in the display, unplug the ASC microphone.



▪ Setting the ASC function takes about 3 minutes.

To cancel the ASC (Auto Sound Calibration) setup, press the ASC button.

The test tone output stops, "CANCEL ASC" appears in the display .

To listen in the ASC (Auto Sound Calibration) mode, briefly press ASC button.

The selection alternates between ASC ON and ASC OFF in the display.

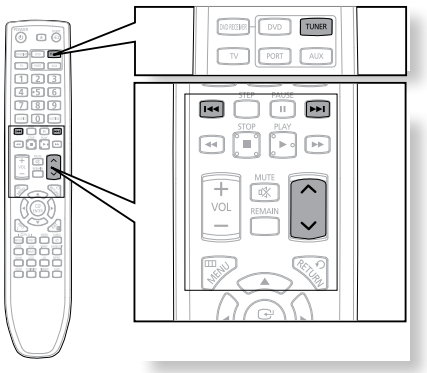
If you select "ASC ON", you will hear sound in the ASC mode.
If you select "ASC OFF", you will hear sound in the mode set in the audio setup.

radio

LISTENING TO RADIO

Remote Control

1. Press the **TUNER** button to select the FM band.
2. Tune in to the desired station.
   - **Automatic Tuning 1** : When the ⏮,⏭ button is pressed, a preset broadcast station is selected.
   - **Automatic Tuning 2** : Press and hold the ∧,∨ button to automatically search for active broadcasting stations.
   - **Manual Tuning** : Briefly press the ∧,∨ button to increase or decrease the frequency incrementally.



Main Unit

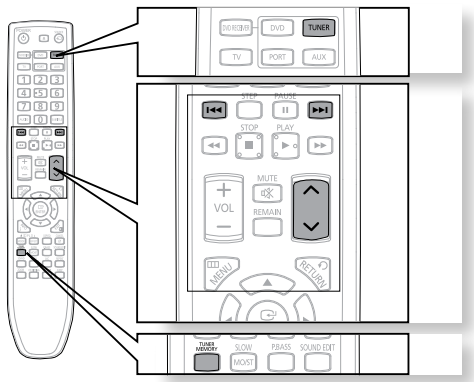
1. Press the **FUNCTION** button to select the FM band.
2. Select a broadcast station.
   - **Automatic Tuning 1** : Press the **STOP** (■) button to select **PRESET** and then press the ⏮,⏭ button to select the preset station.
   - **Automatic Tuning 2** : Press the **STOP** (■) button to select **MANUAL** and then press and hold the ⏮,⏭ button to automatically search the band.
   - **Manual Tuning** : Press the **STOP** (■) button to select **MANUAL** and then briefly press the ⏮ ⏭ button to tune in to a lower or higher frequency.

Press the **MO/ST** button to listen in Mono/Stereo.
- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select MONO for a clear, interference-free broadcast.

PRESETTING STATIONS

Example : Presetting FM 89.10 in the memory

1. Press the **TUNER** button to select the FM band.
2. Press the ∧,∨ button to select **89.10**.
3. Press the **TUNER MEMORY** button.
4. Press the ⏮,⏭ button to select a preset number.
   - You can select between presets 1 and 15.
5. Press the **TUNER MEMORY** button again.
6. To preset another station, repeat steps 2 to 5.
   - To tune in to a preset station, press the ⏮,⏭ button on the remote control to select a channel.



convenient function

SLEEP TIMER FUNCTION

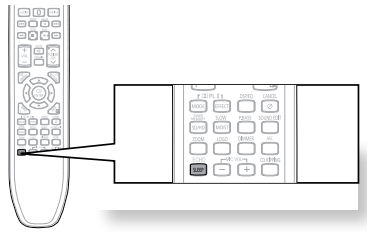
You can set the time that the Home Cinema will shut itself off.

Press the **SLEEP** button.

- **SLEEP** will be displayed. Each time the button is pressed, the preset time in minutes changes as follows : 10 ➞ 20 ➞ 30 ➞ 60 ➞ 90 ➞ 120 ➞ 150 ➞ OFF.

To confirm the sleep timer setting, press the **SLEEP** button.

- The remaining time before the Home Cinema will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.



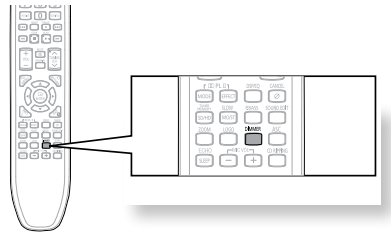
To cancel the sleep timer, press the **SLEEP** button until **OFF** appears on the display.

ADJUSTING DISPLAY BRIGHTNESS

You can adjust the brightness of the display on the main unit so it won't interfere with your movie viewing.

Press the **DIMMER** button.

- Each time the button is pressed, the front display's brightness will be adjusted.

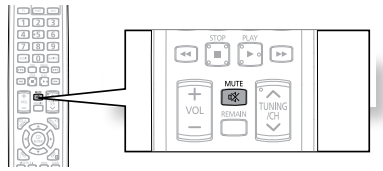


MUTE FUNCTION

This is useful when answering a doorbell or telephone call.

Press the **MUTE** button.

- **MUTE** appears in the display.
- To restore the sound, press the **MUTE** button again.

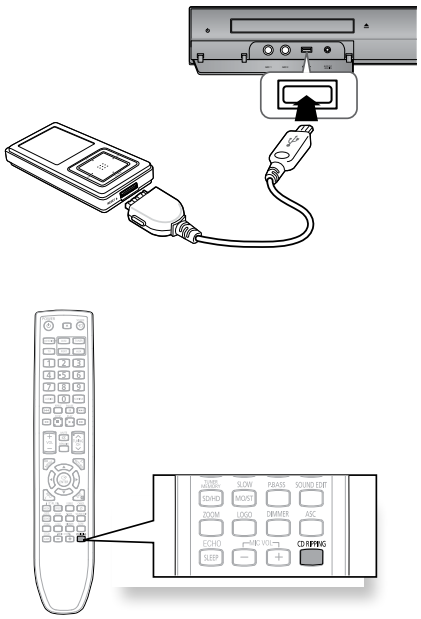


convenient function

CD RIPPING

Converts audio sound of the CD into a MP3 file format before sending to a USB storage device.

1. Connect the USB device.
2. Insert the audio CD into the CD tray.
3. Press the **CD RIPPING** button.
   - To start ripping the current track, press the **CD RIPPING** button on the remote control while the system is playing a track or stopped temporarily.
   - To rip the entire CD, press and hold the **CD RIPPING** button on the remote control.
     -"FULL CD RIPPING" appears on the display and ripping starts.
4. Press the **STOP** (■) button to stop ripping.
   - When the CD ripping is done, a directory named "RIPPING" will be created in the USB device and the ripped file will be saved in a format of "SAM-XXXX".mp3".



- Do not disconnect the USB connection or the power cable during the CD ripping. Otherwise, it may cause damage to the data. To stop CD ripping, press the **STOP** button and disconnect the USB device after the system stops playing the CD completely.
- If you disconnect the USB connection during the CD ripping, the system will turn off and you will not be able to delete the ripped file.
- If you connect the USB device to the system while it is playing a CD, the system stops playing and will resume playing when the USB connection initialization is completed. (The initialization time may differ depending on the type of the USB device.)
- DTS-CDs cannot be ripped.
- If the ripping duration is less than 5 seconds, a ripping file may not be created.
- CD ripping works only if the USB device or the HDD is formatted in the FAT file system. (The NTFS file system is not supported.) For a list of compliant devices, refer to the specification of the USB host.
- Ripping is performed at a normal speed of x1. The ripping time may be longer with some USB devices.
- While the system is ripping a CD, the audio sound will not be output.
- Do not put touch or move the system while it is ripping a CD.

troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Customer Service Centre.

SYMPTOM	Check/Remedy
Disc tray does not open.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• No sound is heard during fast playback, slow playback, and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all six.	• When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing PL II (Dolby Pro Logic II) on the remote control to use all six speakers. • Make sure that the DVD disc is 5.1-CH compatible. • If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the Centre speaker and the rear left and right speakers. Set C, SL, and SR to SMALL.
Dolby Digital 5.1 CH Surround Sound is not produced.	• Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. • Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display?
The remote control does not work.	• Is the remote control being operated within its operation range of angle and distance? • Are the batteries exhausted? • Have you selected the mode(TV/DVD) functions of the remote control (TV or DVD) correctly?
• **Disc is rotating but no picture is produced.** • **Picture quality is poor and picture is shaking.**	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.

SYMPTOM	Check/Remedy
Audio language and subtitles do not work.	• Audio language and subtitles will not work if the disc does not contain them.
Menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	• You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.
• The main unit is not working. (Example: The power goes out or the front panel key doesn't work or a strange noise is heard.) **• The DVD player is not working normally.**	• Turn off the power and hold the **STOP** (■) button on the remote control for longer than 5 seconds (reset function). **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
The rating level password has has been forgotten.	• While “NO DISC” message appears on the display of the main unit, hold the remote control's **STOP** (■) button for longer than 5 seconds. “INITIAL” appears on the display and all settings will return to the default values. • Press the POWER button. **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
Can't receive radio broadcast.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.

language code list

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 50).

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1181	Frisian	1334	Latvian, Lettish	1506	Slovenian
1028	Abkhazian	1183	Irish	1345	Malagasy	1507	Samoan
1032	Afrikaans	1186	Scots Gaelic	1347	Maori	1508	Shona
1039	Amharic	1194	Galician	1349	Macedonian	1509	Somali
1044	Arabic	1196	Guarani	1350	Malayalam	1511	Albanian
1045	Assamese	1203	Gujarati	1352	Mongolian	1512	Serbian
1051	Aymara	1209	Hausa	1353	Moldavian	1513	Siswati
1052	Azerbaijani	1217	Hindi	1356	Marathi	1514	Sesotho
1053	Bashkir	1226	Croatian	1357	Malay	1515	Sundanese
1057	Byelorussian	1229	Hungarian	1358	Maltese	1516	Swedish
1059	Bulgarian	1233	Armenian	1363	Burmese	1517	Swahili
1060	Bihari	1235	Interlingua	1365	Nauru	1521	Tamil
1069	Bislama	1239	Interlingue	1369	Nepali	1525	Tegulu
1066	Bengali; Bangla	1245	Inupiak	1376	Dutch	1527	Tajik
1067	Tibetan	1248	Indonesian	1379	Norwegian	1528	Thai
1070	Breton	1253	Icelandic	1393	Occitan	1529	Tigrinya
1079	Catalan	1254	Italian	1403	(Afan) Oromo	1531	Turkmen
1093	Corsican	1257	Hebrew	1408	Oriya	1532	Tagalog
1097	Czech	1261	Japanese	1417	Punjabi	1534	Setswana
1103	Welsh	1269	Yiddish	1428	Polish	1535	Tonga
1105	Danish	1283	Javanese	1435	Pashto, Pushto	1538	Turkish
1109	German	1287	Georgian	1436	Portuguese	1539	Tsonga
1130	Bhutani	1297	Kazakh	1463	Quechua	1540	Tatar
1142	Greek	1298	Greenlandic	1481	Rhaeto-Romance	1543	Twi
1144	English	1299	Cambodian	1482	Kirundi	1557	Ukrainian
1145	Esperanto	1300	Canada	1483	Romanian	1564	Urdu
1149	Spanish	1301	Korean	1489	Russian	1572	Uzbek
1150	Estonian	1305	Kashmiri	1491	Kinyarwanda	1581	Vietnamese
1151	Basque	1307	Kurdish	1495	Sanskrit	1587	Volapuk
1157	Persian	1311	Kirghiz	1498	Sindhi	1613	Wolof
1165	Finnish	1313	Latin	1501	Sangro	1632	Xhosa
1166	Fiji	1326	Lingala	1502	Serbo-Croatian	1665	Yoruba
1171	Faeroese	1327	Laothian	1503	Singhalese	1684	Chinese
1174	French	1332	Lithuanian	1505	Slovak	1697	Zulu

appendix

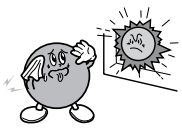
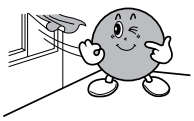
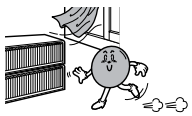
CAUTIONS ON HANDLING AND STORING DISCS

Small scratches on the disc may reduce sound and picture quality or cause skipping.
Be especially careful not to scratch discs when handling them.

Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

Disc Storage

Do not keep in direct sunlight	Keep in a cool ventilated area	Keep in a clean Protection jacket. Store vertically.
		

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

Handling and Storing Discs

If you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc

- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

SPECIFICATIONS

General	Power Consumption	75 W
	Weight	3.5 Kg
	Dimensions	430 (W) x 70 (H) x 282 (D) mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10 % to 75 %
Disc	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec.
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12 cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 74 min.
	CD : 8cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 20 min.
Video Output	Composite Video	576i/480i
		1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	576i/480i
		Y : 1.0 Vp-p (75 Ω load)
		Pr : 0.70 Vp-p (75 Ω load)
		Pb : 0.70 Vp-p (75 Ω load)
Video/Audio	HDMI	1080p, 1080i, 720p, 576p/480p
FM	FM Frequency Range	87.5~108.0MHz
	Signal/noise ratio	62dB
	Usable sensitivity	10dB
	Total harmonic distortion	0.4%
Amplifier	Front speaker output	166W x 2(3Ω)
	Centre speaker output	166W(3Ω)
	Rear speaker output	166W x 2(3Ω)
	Subwoofer speaker output	170W(3Ω)
	Frequency range	20Hz~20KHz
	S/N Ratio	70dB
	Channel separation	60dB
	Input sensitivity	(AUX)400mV

SWA-4100(HT-Z420/TZ422/TZ425)

Power Consumption	50 W
Weight	1.3 Kg
Dimensions (W x H x D)	76 x 256 x 175 mm
Operating Temperature Range	+5°C~+35°C
Operating Humidity Range	10% ~ 75%
Output	166W x 2
Frequency range	20Hz~20KHz
S/N Ratio	75dB

appendix

SPECIFICATIONS

HT-Z320

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Centre	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170 W
	Maximum input	332W	332W	340 W
	Dimensions (W x H x D)	Front/Rear : 100 x 150 x 89 mm Centre : 300 x 59 x 50 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 0.5 kg, Centre : 0.6 kg Rear : 0.4 kg, Subwoofer : 4.5 kg		

HT-TZ322

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Centre	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170 W
	Maximum input	332W	332W	340 W
	Dimensions (W x H x D)	Front : 240 x 1020 x 240 mm (stand base : 240 x 240) Rear : 100 x 100 x 93 mm Centre : 300 x 59 x 50 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 2.8 kg, Centre : 0.6 kg Rear : 0.4 kg, Subwoofer : 4.5 kg		

HT-TZ325

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Centre	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170 W
	Maximum input	332W	332W	340 W
	Dimensions (W x H x D)	Front/Rear : 240 x 1026x 240 mm (stand base : 240 x 240) Centre : 300 x 59 x 50 mm Rear : 240 x 1026 x 240 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 2.8 kg, Centre : 0.6 kg Rear : 2.6 kg, Subwoofer : 4.5 kg		

HT-Z420

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Centre	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170W
	Maximum input	332W	332W	340W
	Dimensions (W x H x D)	Front : 100 x 210 x 99 mm Rear : 101 x 151 x 88 mm Centre : 300 x 57 x 48 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 0.6 kg, Centre : 0.9 kg Rear : 0.5 kg, Subwoofer : 4.5 kg		

HT-TZ422

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Centre	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170W
	Maximum input	332W	332W	340W
	Dimensions (W x H x D)	Front : 260 x 1202 x 260 mm (stand base : 260 x 260) Rear : 101 x 151 x 88 mm Centre : 300 x 57 x 48 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 3.0 kg, Centre : 0.9 kg Rear : 0.5 kg, Subwoofer : 4.5 kg		

HT-TZ425

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Centre	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	166W	166W	170W
	Maximum input	332W	332W	340W
	Dimensions (W x H x D)	Front /Rear: 260 x 1202 x 260 mm (stand base : 260 x 260) Centre : 300 x 57 x 48 mm Subwoofer : 180 x 320 x 380 mm		
	Weights	Front : 3.0 kg, Centre : 0.9 kg Rear : 3.0 kg, Subwoofer : 4.5 kg		

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

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	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com/us
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Code No. AH68-02166K(0.0)